

VANCIALTIMES AUBLISHED IN LONDON AND FRANKFURT • Friday July 16 1982 \*\*\*30p

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### NEWS SUMMARY

GENERAL

BUSINESS

### Nott faces Equities add 2.6; battle on **Falklands** pound steady cost

The £500m cost of the Falklands operation, in the current finan-cial year, may be met by the existing defence budget and will not involve an addition to it, as argued by Defence Secretary company results, though trad-ing remained thin. The FT 30-Share index added 2.6 at 556.4.

Signs of renewed conflict between Mr Nott and Treasury Ministers emerged as the Cabinet had its usual July preliminary discussion about public spending plans. Back Page; Argentine military rift Page 4

### **Uister arrests**

51.7205. It was lower at DM 4.295 (DM 4.3), Y440.5 (Y441.5) and SwFr 2.6525 (SwFr 2.6675) but rose to FFr 11.945 from FFr 11.93. Its Bank of England index slipped to 91.0 (91.3). Page 28 At least 16 people have been beld in a three-day operation by police and troops in Republican areas of west Belfast against Provisional IRA bombers. in thin trading, rising to DM 2.4945 (DM 2.494) and FFr 6.9425 (FFr 6.9225), falling to SwFr - 2.1225 (SwFr 2.1275) and holding steady at Y2561. Its tradeweighted index was down from 121.5 to 121.3. Page 28

### Car plants hit

About 15,000 striking black car workers closed the plants of Ford, General Motors and Volkswagen in Port Elizabeth, South Africa,

### Air crash: 13 die

Two South African generals were among 13 people killed in a collision between two aircraft

Police chief slain

# A Naples police chief, Antonio

Ammaturo, 57, leading the city's fight against organised crime, was shot dead in an ambush outside his city centre

### Indian vote

Zail Singh, nominated by Indian Premier India: Gandhi, was elected as the country's President by an electoral college with an overwhelming majority. Polish talks

The Polish Communist Party's 26 chief policy-making body started talks on how to bridge the gap at \$28.20 before the close. Page between the authorities and disaffected young people.

### Saudi gift

The Saudi Arabian Government sent Mrs Freda Pearce of Hereford a cheque for £50,000 in answer to her appeal for funds to build a bospice for cancer

### Quicksand peril Four Army cadets, all 17, were

rescued after they wandered into quicksand off the shore of the river Alt, of Formby, Merseyside.

### Channel record

Richard Charlesworth, 18, from Dover, cut 43 minutes off the cross-channel record when he swam from France to England in eight hours 52 minutes.

### Dinah Shore

A report from a news agency in early editions of yesterday's Financial Times on o case at Uxbridge magistrates court stated that Miss Dinah Shore, the octress and singer, was fined £100 for an offence at a Heathrow Airport duty-free shop. We have since been informed that Miss Shore was not involved in the case, and we apologise for the error.

### Briefly. - ...

Bolivia's military high com- COMPANIES mand said general elections to THORN restore democracy would be

Magistrate and two court officials were axed to death in Papua, after elections.

Bomb blast in Ajaccio, Corsica wrecked a Swedish tourist

cellided with a lorry near behind at £178.5m. Page 18;

RISES

### CHIEF PRICE CHANGES YESTERDAY (Prices in pence unless otherwise Indicated)

KISES	WITH COLICION
Treasury 121% 1986	Thorn EM1 400 + 10
Treasury 121% 1900	Trident TV A 73 + 5
(E30. bd)	Litd. Gas Inds 140 + 40
Excheq. 131% '92 £1037 + 1	Shell Transport 392 + 8
AGB Research 287 + 14	Shell Transport obs 1 o
Beecham 296 + 7	Anglo Amer. Gold £81; + 1;
Decellant	Gold Fields SA £281 + 11
Braithwaite 125 + 7	FALLS
Bulmer (H. P.) 478 + 18	FRIEN
Distillers 187 + 13	Bowater 193 - 7
Dowty 144 + 9	Christie-Tyler 22 - 2
Eurotherm 442 + 22	Eagle Star 358 - 8
Firth (G. M.) 150 + 13	Hambro Life 272 - 5
Character at 100 to 4	Heath (C. E.) 357 - 6
Grenada A 180 + 6	NatWest Baok 432 - 8
Greycoat Ests 120 + 4	Natwest Date 102 - 0
Herdys 95 + 9	Pilkington Bros 193 - 9
Hollis Bros. & ESA 14 + 5	Sedgwick Group 167 - 7
Howden Grp 138 + 5	Steetley 161 - S
Lendon Midld Inds. S8 - 9	Uto, Engineering 267 - 8
TARRESTED TIMES. See .	

# BR considers ballot of workforce on network's future

BY PHILIP BASSETT, LABOUR CORRESPONDENT

running difficulties in implement in return-menting railway productivity. Part of that Its initiative—reminiscent of the BL survival plan launched by Sir Michael Edwardes, BL • EQUITIES were boosted by

chairman—would involve a ballot of the entire railway workforce, going over the heads of union leaders. GILTS rose about 1 on interest rate hopes in the UK and U.S. The Government Securities index advanced 0.18 to 71.04. Page 27

It would depend on BR being able to offer its employees the prospect of a long-term future for the railways, based on a firm Government commitment on new funds for investment. These might cover BR's pro-posals for further electrification of the railways.

Negotiations on this between BR and the Government are delicately poised, but there is some hope that such an investment package may be forth-coming, despite some Cabinet and Treasury opposition. The proposals being studied ing them stem from the fact that after supported this

the railway shutdown, from next Wednesday which seems increas-ingly likely—Br would re-open in a different form, although parts of the network would remain closed.

• IN TOKYO the Nikkei Dow BR is considering putting turn would probably be of directly to its workforce the decisive importance if negotiamarket average rose 42.77 to 7,197.77, stimulated by firmness idea that the only chance of tions with the railway unions

IRANIAN and Iraqi forces were.

to the southern and western

Five or six shells a minute were reported to be landing on

the town. Basra is Iraq's only

major port and bas the country's largest concentration of in-

dustry, much of which is based

Iranian troops were encircling

the part of the city which lies

on the east bank of the disputed

Shatt al-Arab waterway. An Iranian communique said that

two "feeble" attempts by Iraq to launch counter-attacks bad

Tehran radio claimed that

on the nearby oilfields.

BRITISH RAIL is considering rebuilding the rallways is by ran into difficulty over such an initiative to resolve both the working to BR's plan for a issues as improving productrain drivers strike and its long-modern system, with naw invest-tivity.

Part of that modern system would involve far-reaching changes in working practice, encompassing not only flexible rostering-at the heart of the current dispute and other changes BR is seeking, such as single-manning of trains - but

also other alterations.

The alternative would he described starkly as a condeclining railway tinuously

This scheme would be put to BR's workforce in a ballot, ask-

Thatcher plea to railmen, Page 8 How coal trains broke strike, Page 8 Politics today, Page 17

whether supported this approach. If so, they would be asked whether they would back their leaders in negotiating its introduction. Clearly, such a question would be expected to elicit a heavy vote in favour. This in

BR has had discussions with the independent Electoral Reform Society on the setting np nad conduct of a ballot which the society has advised would take two to three weeks to

While the ballot would not centrally concern the issue of flexible rostering, a vote in favour would go a long way towards sattling the whole issue. In the present strike by the Associated Sociaty of Locomo-tive Engineers and Firemen, traine drivers yesterday seemed to be still ignoring BR's call for a return to work, despite the warning that they would be sacked and the system shut down if they did not return.

By 4 pm yesterday, 711 drivers bad booked on for duty. Of these, 417 were Aslef members - the first time in the strike that the total has passed 400 — and 294 members of the National Union of Railwaymen. The projected total of drivers to

midnight was 835.
While this allowed BR to run 1.187 trains by 4 pm, with a pro-jected total by midnight of 1,871, the response from drivers

Continued on Back Page

# Fierce battle for Basra as Iran claims successes

BY JAMES DORSEY IN KUWAIT AND REGINALD DALE IN WASHINGTON

on Wall St and the yea's re-

Dow Average

at 828.20 before the close. Page

• STERLING fell 30 points to

DOLLAR was little changed

● GOLD rose \$0.5 to \$350 in London. In New York the Comex July close was \$344.1.

• BRITISH SHIPBUILDERS plans to cut 1,500 jobs, in an an attempt to stem its film-a-month losses. Back Page

BRITAIN'S 24,000 docker will black all Cunard ships if the Atlantic Conveyor, sunk in the Falklands conflict, is replaced by a foreign-built ship.

• UK STEEL production in June, 280,800 tonnes a week, sharply lower, reflecting decline in demand and rising imports. Page 7

• U.S. industrial output was 0.7 per cent down last month. The Federal Reserve Board said it had fallen more sharply in April and May than earlier believad. Page 4

**■** EUROPEAN Court of Justice ordered Britain to lift a ban on ponitry imports from other EEC countries, saying they were in breach of free trade rules.

 THAILAND decided to allow the export of natural gas from the Gulf of Thailand but has not accepted any specific development proposals.

• THORN EMI saw profit before tax for the year ended March 31 up from £94.3m to £105.4m, with the music division significantly higher. Page 18; Lex, Back Page

 DISTILLERS whisky and gin producer saw second-half pre-tax profit up by £9.3m to Four died when their car full year to March 31 was just Lex, Back Page

Mixconcrete ...... 178 + 63

### fighting fiercely around the southern Iraqi city of Basra pesterday in what U.S. military officials said could be the largest IRAN CLAIMS EASTERN BASRA SURROUNDED single battle since World War IL U.S. Administration officials stretch of Iraqi territory, had been joined by about 100,000 men from either side. Tehran Radio claimed yesterday that its troops had advanced to within five miles of Basra, which is Iraq's second largest ME REPORTS SAY MAJOR TRADE LINK TO city with a population estimated at more than 1m. Residents of the city, contacted from Kuwait, said the centre had been evacuated many people moving

### Reagan seeks hosts for PLO

President Ronald Reagan has urging them to accept the 6,000 Palestine Liberation Organisation guerrillas now trapped in West Belrut. Hopes for avoiding o hloody Israeli attack on the city depend largely on the response to this appeal. Back Page PLO takes initiatives to gain

recognition, Page 3

been beaten off, and that its troops continued to consolidate positions 12 miles into Iraqi territory.

A statement from Baghdad claimed that the Iranian invasion, launched on Monday. bad been halted and its forces thrown back across the border with heavy losses of men and equipment. Iran dismissed this claim as " mere lies." A military spokesman in Tehran added that the Iranian air force had carried devastating raids lraqi positioos in the Basra area, causing "substantial

losses and damage to Iraqi armoured units."

Officials Washington believe that the present battle will be decisive in the 22-month war. If the Iranian forces were to triumph, they could then move on to capture Basra. assume full control over the waterway and deny Iraq access to the sea. The port of Basro and the oil terminals further south bave been out of action since early in the war.

Another Iranian objective is to cut the main supply routes Continued on Back Page

# Mail on Sunday hits Associated profits

BY CARLA PAPOPORT

The Mail on Sunday, the Sunday stahlemate to the Daily Mail, slashed interim profits at Asso-ciated Newspapers, the UK publishing group, which is the paper's parent. Pre-tax profits for the aix months to the end of March were halved to £5.4m from £10.8m a year earlier.

The Mail On Sunday began oublishing in early May and has been unable to meet its target circulation of 1.25m. Circulation s now thought to be between 800,000 and 900,000. Earlier this month, Mr Bernard Shrimsley, the editor, resigned. Sir David English, editor of the Daily Mail, was appointed interim editor.

Britain's first new Sunday

PRE-PUBLICATION COSTS for recent editorial reshuffle, City analysts estimated it was losing at the rate of some £4m a year.

Associated Newspopers directuration wars and high newstors were unavailable for comment

In its interim statement yesterday. Associated reported turnover up to £127.5m for the six months, compared with £116.4m o year before. Trading profits bad sunk to £1.9m from £7.2m, while income from associated companies held fairly steady of £1.8m. Investment income was up from £1.6m to tained. The shares yesterday £2.2m in the corresponding eased 3p to close of 175p. In 1979 Associated Newspapers

paper in 21 years. The Mail On recorded peak profits of £39.2m on sales of £314m for a 21-operating at a loss. Before the month period. In the year to September 1980 the company print costs helped to depress profits to £16.2m on sales of

The big profit fall reported yesterday did not unduly surprise the City. The company bad previously estimated that the Sunday paper would cost £12m, including £3m in promotion costs. The interim divi-dend of 4.5p net was main-Results, Page 18

Lex. Back Page

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erty Advtg. 12, 13, 14 Wall Street . ....

ANNUAL STATEMENTS Atkina Bros. . Bank of Ireland

### Sizewell B safety report fails to satisfy inspectors

GOVERNMENTS Inspectorate has uncovered a number of shortcomings in the design of the Central Electricity Generoting Board's proposed nuclear station at Sizewell in Soffolk, planned for service in 1989-90. In a critical report on the

design for Britain's first big pressurised water reactor for power generation, the Nuclear Installations Inspectorate says. however, that it helieves "o satisfactory design is achievable and can be developed to meet the safety objectives."

Only when the NH is satisfied on this count, and that there is titlle chance of the design having to be changed later for safety reasons, will it grant a licence for Sizewell

B, it says.
The critique, based on the cEGB's pre-construction safety report on Sizewell B as the project stood on March 31, is intended primarily for interested parties at the Size-well public luquiry, which starts in six months.

The five most important Issues It raises are: I-Hazards presented hy fire, aircraft crash and earth-

2—Fnel clad ballooning. In certain cirmustances, the fnel pins might expand, cutting off the flow of cooling water between them.

3-Integrity of steam gen-erator tubes. Multiple faults could result in radioactive leakage within the plant.
4—The reactor safety system, which is questioned

mainly because it is microprocessor-based, unlike sys-tems for previous reactors. 5-Overall safety analysis

assessment for the station, "which will require more time and information." The issues raised do not include the reactor pressure vessel or its containment, the safety of which has previously aroused considerable public

interest.
Mr Ron Anthony, chief nuclear inspector, said it was "not our business to proffer plant operators."

The inspectors proposed to publish assessments updating their criticisms of the five Continued on Back Page Nuclear installations reviewed

Page 7 £ in New York

July 14 Previous

month 0.27-0.52 pm 0.28-0.23 pm months 1.10-1.15 pm 1.10-1.15 pm months 4.20-4.50 pm 4.10-4.35 pm

# Default called on Ambrosiano Luxembourg

Westminster Bank, as agents for two major syndicated loans to Banco Ambrosiano Holdings of Lusembourg, have called a default on \$11am (£87m) worth

Midland Bank and last night it had called a default on Monday on a five-year \$40m loan in had led as syndicate ogent. The loon involves 17 banks including the Bank of Tokyo, International Westminster Bank and Lloyds Bank International. It was completed on July 8 1980 and led by Midland Bank (France).

National Westminster Bank said it had acted to call "an event of default" on a \$75m five-year loan it led as agent in 1981. The default was called just after midnight on Wednesday. The Natwest loan to Banco Ambrosiano Holdings involved syndicate of 28 banks led by International Westminster National Westminster Bank

in London aoid last night it had acted in the wake of the Mid-land syndicate's default call because of cross-default provi-sions in the loans. "Midland was the trigger. As soon as they called a default we had to move as well," said NatWest. NatWest indicated it expected

Holdings in Luxembourg would these loans will be called into "involve a number of other banks." In all, about 250 banks were involved in supplying the suppl were involved in supplying the Luxembourg bonk medium-term credit.

The Italian rescuing consortium of six banks—the lifeboat consortium which has been Luxembourg government ex-formed under the aegis of the perts by September 30.

MIDLAND BANK and National Bonk of Italy-is not willing to be involved in the Luxembourg bank case.

It is believed that o significant portion of the loans raised by Banco Ambrosiano Holdings of Luxembourg was re-lent to Vaticon-backed empanies operating in Ponama under the umbrello of the Instituto per le Opere di Religione (IOR), the

bank of the Holy See. Some of the other loans made by syndicates of banks to the Luxembourg bank are thought to include a five-year \$25m loan made in 1980 and led by Landesbank Stuttgart (agent) and a five-year SwFr 50m (£13.6m) loan made in 1979 by a syndicate led by Banca del Gottardo—the Swiss bank which is 45 per cent owned by the Ambrosiano group.

Other loans to Banco Ambro-siono Holdings of Luxembourg are thought to Include a \$10m six-year credit arranged in 1979 and involving the Bank fuer Gemeinwirtschaft and others, two 1981 loans for \$10m and \$40m involving Banca Nazionale del Lavoro, o five-year \$10m loan made in 1979 and involving Banque Bruxelles Lambert and a \$50m six-year loan made in 1979 with Banca

placed by the courts under gestion controlee, which freezes all its activities, assets and llabilities for three months. A report is expected from

### Plan to extend enterprise zones

BY EUNOR GOODMAN, POLITICAL CORRESPONDENT

scheme set up in 1930-to see might be extended, whether companies could be Sir Geoffrey launched the encouraged into new areas if zones as an experiment in his

An announcement in principle on the expansion, possibly giving the number of new zones but not their location, may well

be made before the recess. Eleven enterprise zones are now in operation. The Government bas been waiting to see how they worked out before deciding on an extension of the

programme. Recently. bowever, Geoffrey Howe, the Chancellor of the Exchequer, who conceived the idea of enterprise zones while in opposition, said

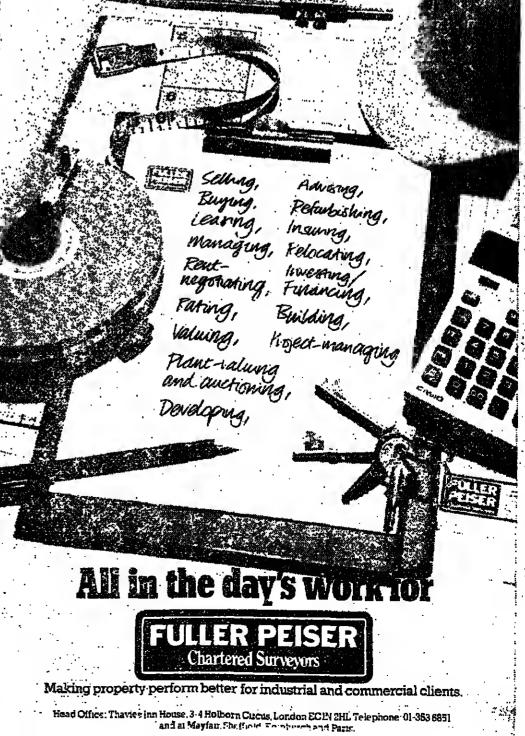
THE GOVERNMENT is considering a big extension in the progress so far. He gave a enterprise zone programme, the strong bint that the programme

red tape were kept to a mini- 1980 budget to see If rapid busigenerated in small designated areas in which planning and other restrictions were kept to a minimum.

As an inducement, the Government offered any company within a zone 10 years of freedom from rates. abolished development land tax and gave 100 per cent allowances on new hulldings.

If the Government does decide to create more zones, the likelihood is that the inducements offered would be broadly as before.

Editorial comment, Page 16



Turkey to

maintain

austerity

programme

TURKEYS NEW Minister of

Finance and Economic Plan-

ning will persevere with the

austerity programme prescribed

by the international Monetary

Fund but uac new tactics, officials in Ankara said yester.

The minister. Mr Adnan Basar

Rafaoglu, replaced Mr Turgut Ozal, the Deputy Prime Minister and Supreme Econo-

mic Planner. Mr Ozal resigned

on Wednesday, after two-and-a half years in charge of the economy. The military leaders had lost faith in his policies.

Mr Ozal refused to work with

Mr Kafaogiu, who also replaced Mr Kaya Erdem, Finance Minister — one of Mr Ozal's

most faithful supporters—in the Cabinet.

The main problem confront

ing Mr Kafaoglu is economic

stagnation caused by the tight

monetary policy and the high cost of borrowing — between

70 and 80 per cent interest per

These factors have led to

near-paralysis in the hanking

system. Commercial hanks have drastically reduced their lend-ing portfolios in order to con-

solidate their liquidity position.

Many companies are close to

insolvency.
Mr Kafaoglu will attempt to

reduce the effective lending rate by cutting taxes, such as the transaction tax on loans, officials say. Some hudgelary

funds allocated to the public sec-

tor will be disbursed to the private sector, which is squeezed

hetween depressed domestic demand and high Interest rates. A formula will be found to

belp alling private companies,

which include some of the

largest holding companies. Legislation will he introduced to discipline banks and their

issue of bank certificates. The restrictions on money will be relaxed, in order to increase domestic demand.

Both Mr Bulent Ulusu, the

affirm that there will be no diversion from the course of austerity. But it remains to be

seen what effect the new Fin-

ance Minister's policies will have on the inflation rate which is running at 30 per cent. Some conomists suspect that

in his drive to help ailing banks

and companies. Mr Kafaoglu

might expand the monetary hase

In a way which might fuel infla-

tion, undermining more than

two years of progress towards

Mr Kafaoglu also believes that

Turkey must have a fresh look

at its relations with the IMF, in

view of the development which

has taken place in the Turkish

economy since the Turkey-IMF

stand-by agreement was signed

Mr Kafaoglu started his career in the Ministry of Fin-

ance, which has a reputation for being the most conservative

and among the least outward-

He was adviser to several

large private companies in Istanbul, when he was sum-

moned to Ankara after the coup

of September, 1980 to advise

General Kenan Evren, the head

of state, on economic matters. His proximity to the general

gave him considerable power.

and he galned the reputation

for being one of Mr Ozal's fiercest opponents. Under bis direction, the Ministry of

Finance is expected to predominate over such agencies as the Central Bank, the State

looking of the ministries.

some two years ago.

Minister, Kafaoglu's close

annum.

By Metin Munir in Ankara

After seven months of martial law, Christopher Bobinski reports on signs of change in the Jaruzelski régime

# Apathetic Poland turns away from radical solutions

POLAND'S martial law regime is clearly approaching an end in its present form. It is fast losing the necessary credibility which made such a potent weapon in regaining the initiative for the Polish Communist establishment, and almost everyone wants to see it replaced by something else.

Increasiogly, the leadership, under General Wolciech Jaruzel-ski, sees that martial law is no lasting substitute for more orthodox East European politics. It should give way to measures which retain control over the Polisb population, but present some perspective of economic improvement and more scope for free expression and organisation.

For its part, the Communist Party apparatus bss grown restive at the army's role in its traditional political domain. It would like to return to a "normal" system on Czechoslovak or Romanian lines, in wblcb the police and the party throatle political free-thinking quite as effectively as any number of military patrols ambling along Poland's streets.

To judge by the number of rumours being floated about the lifting or easing of martial taw on July 22, the country's post-war National Day, the people themselves are champing for an end to the current phase in Potaod. "People repeat what want to hear," comments loog-time observer "and this time they are looking to. Government to come up with some ideas on how to get Maybe General Jaruzelski will give them that main proposent of the general when he addresses the Parlia-ment session due for July 21-22. strike, in shallow water. The recent arrests of his wife and

## Party seeks to win back young

the Pulish Communist Party met yesterday to discuss the growing gulf between the authoritles and the country's young people, one of Poland's most pressing problems, writes Christopher Bobinski in Warsny. Members of the committee, the party's policy. making body, produced evidence before the meeling whileb indicates the Government is facing an uphill

One third of school papils polled in one area, for example, said they thought the party would never again "regaln the trust of the population." In another area,

the suspended Solidarity union

also know the mood is turning

against radical solutions and

that it is the middle ground which now has to be secured.

Solidarity's national leadership

still at large has ordered its

supporters to lie low, at least uotil July 22. They say they do

nul want to prejudice the chances of liberalisation or of

Soundings in factories have

shown that rank-and-file wor-

kers are not ready to confront

the Government openly. Last

year's feeling that the people

were prepared to take on the

system and its Soviet patrons has ebbed away and left Mr

Zbigniew Romaszewski, the

others involved in Radio Soli-

an overwhelming majority believed martial law had been brought in to balt the move towards democracy last year. Trybuna Ludu, the Com-

munist party newspaper, yes-terday published n commentary rejecting the Solidarity union's latest offer of talks. The union's leadership — in hiding from the authorities recently ordered e moratorium on protest demonstralions until the end of the month and called for an agreement with the Govern-

The newspaper sald: "There is no, and can be no, agreement with the enemies of socialism, with the anti-

darity—the clandestine station

has weakened the radicals in

the underground. This radio came on the air briefly this

week, but only to say it planned

liberalisation a chance.

period of silence to give

The young worker in an early

morning queue for cigarettes, who pointed to a muzzled dog and said "they'll have us all muzzled like that in a few

mean other young men like him

for a real underground to get

going and it will be organised

I hope the teadership remem-

going and it will be organised the authorities and by General by people no one has beard of. Jaruzelski himself. His attitude

socialist underground, and with those who still have not set nside the strike weapon, wbo diatribuic bostlle publications and encourage young people to demonstrate

In his speech to the central committee, General Wojciech Jaruzelaki, the military and party leader, gave little hint that the authorities are planning any large-scale liberalisation. Nor dld he suggest that any imaginative policies were being prepared, to counter the alienation of young people who make np a third of the

Gen Jaruzelski . . . no hint of relaxation



In Warsaw—and the seizure of remarks. some of the radio equipment, Despite Despite the resigned mood, it This radio, of several thousand out on the streets demoostrating, particularly among the young who are almost uniformly hostile to the system. The Warsaw and Krakow clashes in May and in Wroclaw last month proved this. One of the reasons why the authorities are so very unwas making an obser- Pope John Paul coming in months," was making an obser- Pope John Paul coming in valion more than a call to re- August is that he could lift a sistance. But this does not wide segment of the population could not ture to terrorist-style The waning of the revolu-resistance by the end of this tionary mood among the bulk year. "It takes around a year of the population has been

registered with satisfaction hy

to the Polish people seems to

enough, I'll untie you." Thus, be in now known to be in colleagues in the Government about how to replace martial

This should be good news for the West. Nato sanctions against Poland and the Soviet Union are beginning to be very Western banks are frustrated that they cannot start re-scheduling Poland's \$5.5bn t£3.19bn) 1982 debt until Western governments do so, while the U.S. has put itself at angry odds with its allies over equipment for the Soviet gas pipeline. Just as introduction martial law in Poland was the pretext for imposition of Western sanctions, so an end to martial law would pre-

But the West would be III edvised to hold its breath too It is gradually and painfully long. Even if Gen Jaruzeiski is, adapting to the Western credit as establishment liberala say, freeze. Shortage of hard curaware that Poles cannot he rency has reduced imports from ruled indefinitely by the the West by 40 per cent this hayonet, his freedom of year. Even should Poland sucmanoenvre is limited by the Soviet Union and conservatives inside his own government, who

are suspicious of further experimentation in Poland. Immediete changes are likely to be peripheral - perhaps, freer travel abroad for Poles, partial amnesty and reclase of a sizeable number of the 2,400 people still interned without trial. A steady trickle of people is now being freed from internment camps.

But such steps might be con-sidered window-dressing, compared with basic issues such as release of all internees, including Mr Lech Walesa, demilitari-sation of the Polish mines and, most important, restoration of trade unions. Little change is expected bere.

The "great debate" which the Government called for in the spring on the issue of reviving trade union activity bas, after several months, produced no consensus, not even in ruling circles. The question of whether unions should be or-ganised by industrial sector fithe old system) or by geographical region (as Solidarity was) has not even been resolved conclusively. But clearly the authorities are not going to allow another "sorcerer's apprentice" which might escape their control. Even the liberal wing of the establishment is looking for. a measure of autonomy for the

retaining final control.

The time bomb, which could disrupt the slow timetable of normalisation, is the economy ceed in getting its 1982 debts rescheduled and some fresh credit from the West, its central planuers are assuming a longterm decline in the country's

bard currency import levels. Industrial production will be lower this year than in 1981. But output, led by coal extraction from the militarised mines, ls now beginning to recover. Production of consumer durable goods is still down substantially, but this is partly due to scarcity of skitled labour. A crucial un-certainty is the 1982 harvest, which officials predict will be an average 20-21m tonnes. Poland has little spare cash to buy more grain imports than the 2m tonnes it bas already got on credit, from Canada and France. nd a poor barvest would aggravate current shortages.

The drastic price increases last February have, according to the various estimates, depressed real incomes by between 25 and 40 per cent this year. The Gov-ernment is aware of the danger of civil disorder and industrial disruption in the autumn, against a hackground of low incomes and empty shops

Civil disorder would favour the Solidarity radicals. It would also put powerful arguments into the hands of the establisbment's hardlinars, ready to ditch the General, bis flirtations with economic reform and apparent commitment to con-trolled political change.

## **Minister** faces fight over Dutch aid reform

THE DUTCH Development Cooperation Minister, Mr Kees van Dijk faces a protracted battle over his plans for a reformed National Development Ald Com-mission (NCO). The commission resigned en bloc on Wednesday, after rejecting Mr van Dijk's demand that he should be able to yet their pro-

gramme in advance. Now the Minister Is left with the task of putting a new commission together in the leeth not only of the oulgoing body appear to bave committed him-hut also of the left-wing trade self either way on the desirauniun federation, FNV.

lished some years ago to bring would require Commission Minister's attention and to coordinate and assist the activities of development aid groups within the Netherlands. Mr van Dijk has felt for a long time that it has exceeded its brief. Despite the row, the Neiberlands continues to be the world's most generous per copitn source of development

aid. Last year, it topped the international league of aid donors, with official payments representing 1.08 per cent of the country's Gross National Product, compared with 1.03 per cent in 1980. In cash terms, it gave more than \$1.5bn [£880m)

The Paris-based Organisation for Economic Cu-operation and Development last month described the Dutch aid performance as the most impressive individual performance by any OECD member,

Second on the 1981 list came Sweden, with 0.83 per cent of its GDP, then Norway, with 0.82 per cent and Denmark with 0.73 per cent.

But while the volume of aid lias continued unabated— F1 500,800 [£106,3801 has just been earmarked for new refugees in Lebanon-relations helween the Minister and the NCO have continued to deteriorate.

Mr. van Dijk began his csm-paign last October, declaring that he intended monitoring more closely the aid his department would give Dutch pressure groups active in Third World

Then, last January, he warned that he was going to look criti-cally at the way in which the said that if Improvements were not made to the Government's satisfaction, there could be no guarantee of state aupport be-

yond July. Now the commission has re signed. Mr Dolf Coppes, the chairman, said that 20 of the organisations represented had voted against the Minister's



# Commission soft-pedals idea of EEC 'crisis cartel' for plastics

BY GILES MERRITT IN BRUSSELS

EUROPEAN COMMISSION officials yesterday made'it plain that an extensive study, setting out the full extent of the EEC petrochemical Industry's difficulties, will be required before the ldea of a " urisis cartel " governlng output and restructuring can even be considered.

Executives of seven large petrochemicals and plastics glants met Viscouot Etienne Davignon, the Community's Industry Commissioner, in Brussels on Wednesday for exploratory talks on such a cartel. Viscount Davignun does not appear to have committed him-

bility of a co-operative frame-The commission was estab work for the lodustry that Community. He has stressed, PVCs and polystyrenes—are bowever, that the case for a falling sharply. Output in 1980 crisis cartel should be fully pre- was 16.7m tonnes and last year pared by the producers and sank to 11.1m tonnes. while presented to Brussels later this

> According to Commission officials, the need fur produc- and-see" attitude toward the tion disciplines that would formalion of a 24-company EEC figures show that both output an arrangement. and consuciption in those products-high and low density Industries, the Royal Dutch/ made by either side."



Viscount Davignon

vece the competition laws of the polyethylenes, polypropylenes, consumption dropped to just 10.7m tonnes.

But the Commission's "wait-

Britain's Imperial Chemical

Shell group and West Germany's Hoechst were represented at the Brussels meeting with Viscount Davignon and are under-stood to have rejected the idea of a "crisis cartel." The driving force heblnd the notion is he-lieved to be a French and Belgian initiative, and follows earlier representations to Brussels made by Beigium's Solvay and Ato Chimie of France.

In addition to preparing a de-tailed report on the function and organisation of a cartel, the EEC petrochemical majors are also thought to have been told by the Commission to make a firm decision among themselves on the need for the new grouping before returning to Brussels in the autumn for fresh discus-

Sne Cameron writes: Imperial chemical Industries has stressed that the discussions with Viscount Davignon were only "ex-ploratory." It found the meet-lng "belpful" and expects further talks to be held, though 'not for some time."

ICI is known to be totally regulate autput in the five main plastics cartel that could co-against the setting up of any-building block "categories of ordinate capacity reductions in thing resembling a cartel—as plastics is already plain enough. the industry is also believed to are other UK-based companies Over-capacity is running at some reflect divisions inside the and the West German produc-35-40 per cent and Cummission sector about the need for such ers. The company added: "No proposition for a carlel or for industry restructuring was

# Fresh bid for coal industry aid

BY JOHN WYLES IN BRUSSELS

BRITAIN and West Germany are poised to make another bid for EEC ilnancial aid for their coal industries following an the EEC's Council of Ministers, acknowledgement by the Ten As a result, an od hoc group of that the Community is almost experts has been set up with the totally bereft of a strategy for

However, the Community's change minds in several other member-governments, which for four years or more have been hustile to the idea of sllucating substantial sums of EEC money to support domestic roal production and investment.

somewhat vague aim of producing recommendations which would produce a better halance two main coal producers look hetween the interests of coal likely to have a difficult job to

The Anglo-German producers' swung too much in the direction of consumers who have heen freely importing cheaper coal from third countries While contributing to the ob- anything.

DOUBTS CAST ON OECD GROWTH PROJECTION OF 3.25% NEXT, YEAR

The new opportunity has jective of feducing dependence heen presented by an initiative on oil, this trend is still ob-from Denmark as President of viously maintaining a depenon oil, this trend is still ob-viously maintaining a dependeoce on imported energy.

It is also inhibiting the development of the British and West German industries, which are receiving large amounts of public investments to supply a market increasingly penetrated by imports. However, Italy and France re

view is that the pendulum has main either indifferent or opposed to Angio-German pressure over coal and there are only slender hopes that the new working group can achieve

Forecasters split on W. German economic recovery

### IMF backs Belgian austerity

THE BELGIAN economic austerity plan launched six months ego by the country's new centre-right coalition Government has received a warm welcome from the Inter-Monetary In its preliminary con-

clusions, an IMF mission yesterday contrasted the current economic ontlook in the country with the situation it had found in October 1981. "We are greatly encouraged by what has taken place in the few months since our previous the IMF officials noted. Last year, they "had expressed great concern at the extent and speed of the

deterioration in Belgium's The IMF team described as "important and conrageous" the measures taken by Mr Wilfred Marteus' Social-Christian and Liberal Government to curb public spending and restore order to the

State's delicit-ridden finances. They also approved of the Belgian Government's current attempts to impose a partial prices and wages freeze, and underlined the necessity for such policies to be continued. "Continued moderation of wage cost is a prerequisite'

to renewed expansion of ont-put and employment, the interpretation that prevailed until 1982, the dangers of which have been amply demonstrated."

The IMF position on the Martens coalition's ensterity programme matches the similarly enconraging view expressed not long 2go by the Paris-based Organisation for Economic Co-operation and

Development. In international terms, such demonstrations of confidence are for Belgium a useful disconragement of further speculative pressures being placed on the Belgian franc-In domestic terms, they are

a valuable endorsement of policies that are particularly controversial in the francophone region of Wallonia.

# Portugal abolishes military watchdog

BY DIANA SMITH IN LISBON

SEVEN YEARS of military supervision of Portuguese polilics has ended with a sweeping parliamentary vote to ebolish the 18-man Council of the Revo-

Only the Communist Party and its close sympathisers opposed the vote to drop the Council from Article 113 of the 1976 consiltution, which lists Portugal's sovereign bodies. Since the review of the constitution began in committee last year, the Communists have done all they could to disrupt the labour and political scene, apparently trying to stave off the demise of a body for whose creation they were largely responsible in the agitated, revolutionary days of 1975.

the liberalisation of the economy ardently desired by the Government and the business community.

Four times since 1980 the Council has veteod draft legislation, approved by Parliament, to reopen hanking and insur-ance to private capital. The members of the Council argued that the move would countervene the constitution,
The Council of the Revolu-

right-wing coup attempt. Three capacity of its squabhling poli-days later it nationalised the ticians.

banks and 53 per cent of fixed capital formation in industry and commerce controlled by the banks, which were bolding companies. The officers who dominated the Council then were close associates of the Communists. When the revolution cooled later that year, they were replaced by more

moderate left-wingers. Since then, the Council of the revolution, with its ministerial status, large ataff and sweeping powers of veto, has come to be blamed hy many Portuguese for everything that has held the country back from Europeanstyle development. It has been accused of being a parallel

It will be succeeded by a civilconstitutional tribunal and a supreme defence council. Its demise some months from now, when the revised constitution becomes law, may not be the magic cure the Portuguese are seeking for their economy. But the fact that, after immense delays in tackling the constitutional review, a civilian Parlia-ment has finally voted this military watchdog out of existence is a strong psychological tion was created on March 11 fillp for a country harbouring 1975 after the failure of a serious doubts about the

## Mozambique to send 60 for military training

BY OUR LISBON CORRESPONDENT

SIXTY military instructors from Moscow Portuguese Communist which includes arms supplies to the former Portuguese colony. this remark "insulting." It is Until now, the Soviet Union a label that it would not bave has been the main influence on bung on a Communist party the Mozambican armed forces. leader's statement as recently Indeed, shortly after the as a year ago, before two very

Mozambique are to receive Party, has described the training in Portugal under a Government's renewed links protocol signed by the govern- with Mozambique as a "Trojan ments of the two countries horse of neo-colonialism." The Mozambique Press called

Portugal-Mozambique military successful tours, first by Presi-protocol was signed a senior dent Antonio Ramalho Eanes. Soviet general visited Maputo to express Moscow's concern. Francisco Balsemao, which to expresa Moscow's concern. Francisco Balsemao, which Sr Alvaro Cunhal, the began a new, constructive era secretary-general of the pro- of relations.

### Planning Organisation, and the Foreign Capital Department. Opposition in Spain to £4.6m

BARCELONA - The million-dollar transfer of Dlego Maradona, the Argentine foot haller, to Barcelona hae run Into opposition from the Government over the amount of currency which would have to be exported.

The Economy Ministry said yesterday that it had turned

soccer transfer

down a request from the club to export \$3.3m (£4.6m). It said the club would bave to earn over half the money nutside Spain. but it would be allowed to take out the rest.
But Nicolas Casans, vicepresident of the club said yesterdey: "There is absolutely

no problem, we shall have enough foreign currency. Maybe we will just play come matches abroad, but I assure you the club is going to pay its debts."

Barcelona agreed to pay \$7.7m for the services of the

21-year-old player. The cluh aaid the money would be paid over six years to two Argentine លំហើត. Reuter

Romanian pledge Romania has promised to imple-

ment a five-year-old agreement

aimed at improving the lot of

its Hungarian minority, Reuter reports from Vienne, A communique, published in Hungarien newspapers after an official visit to Romania hy Mr Gyorgy Lazar, Hungary's Prime Minister, said both countries agreed to continued aupport for a 1977 agreement to extend links between Hnngary and an estimated 2m ethnic Hungarians in the Transylvania region of

cent this year. rent account surplus roughly

cent real leconomic) growth in 1983." a West German opposillou spokesman said yesterday, in an artack on what he felt to be the Government's overoptimistic economic projections. According to that definition, the Organisation for Economic

BY JONATHAN CARR IN BONN

Co-operation and Development 1OECD1 would seetn to be a muddled and inexpert body. In its report on West Germany, released today, it says it expects 3.25 per cent real growth tafter infailon) in 1983, after 1 per It also sees the country's cur-

FINANCIAL TIMES, published daily except Sundays and holidays. U.S. aubscription rates \$365.00 per annum. Socond Class postage paid at Now York, N.Y., and at additional mailing

and private consumption. The for price increases).
only blot is that deepite the Last year, the go

That said, the OECD also draws attention to the risks involved—as though faintly worried by the boldness of its own projections. Indeed, rarely has there been so great a division of expert opinion on the timing and extent of a German

economic upswing. That even from, applies to this year-let alone The Bonn Government is

deny that we can achieve 3 per (£2.85n) thanks to a record of around 1 per cent real visible trade surplus and the growth in 1982, while four increase in consumer prices leading economic institutes dropping to a rate of 3 per cent. expect about 0.5 per cent, and To round off this glowing picone institute (in Kiel) forecasts ture, the OECD sees a marked "mmus growth" (i.e. a con-boost in fixed asset investment traction of GNP after allowing Last year, the government

economic uplurn, unemploy- soothsayers did quite well, ment will rise 100-above all. forecasting real GNP "growth" hecause more people will be of between zero and minus 1 eoming on to the labour market. per cent. The ectual result was ninus 0.3 per cent. the steel sector, President But this year there is going Ronald Reagan's intensified minus 0.3 per cent.

to have to be a powerful econo-mic boost in the second half Soviet Union and the invasion if the growth projection of of Iraq where German com-Bonn (and the OECD) le to be panies have heavy interests fulfilled. But it is hard to see where this boost will come

strong (helping hring a visible being drawn up. trade surplus of DM 19.6hn The "minus

ALL clear-headed experts doubling in 1983 to \$4.75bn still sticking to its projection (£4.2bn) in the first five months mists are not bound to be right. compared with one of DM 4.6hp in the same period of 1981.) But foreign orders bave dip-

ped and there heve been few signs of a recovery in domestic demand. The building sector began to look more lively-but the fall in interest rates which helped bring this modest improvement has stopped, and even hegun to reverse.

Add to that, new problems in and it becomes clear thet the risks have markedly increased. rom, cven over the paat few weeks True, foreign sales remain when the OECD report was The "minus growth" pessi-

West Germany's relatively low inflation rate (5.8 per cenf at an annual rate in June) and this year'a reasonable wage settlements (around 4 per cent) indicate that the country's expor success will continue, even with only weak growth in world trade.

WEST GERMAN ECONOMIC DEVELOPMENT (% increase or decrease in real terms)

success will continue, even with		1982	1983
only weak growth in world	GNP growth		_ 3.25
trade.	Gross fixed Invest.	-4.75	2.75
But even the government's real 3 per cent growth projec- tion next year seems pretty	Private consumpt'n Exports of goods and services	-0.75 8.5	٠.
ambitious at present—let alone the OECD'a 3.25 per cent.	Imports of goods	2.25	. 6
If growth is less than fore- cast, then in 1983 the Bonn Gov-	Consumer prices	45	<b>, 3</b> _,
revenue, more expenditure on	(as % of total labour force)	6.5	7
unemployment, more bickering over ils budget—and finally a	Current account		
higher net borrowing require-	balance (\$bn)	2.25	4.75
ment than the DM 28.4bn cur- rently forecast. It is a familiar	Source: DEC	D report of Germany	

PRESIDENT Francois Mitter-rand came to power with the credentials of a friend of Israel official visit there in March. and the hope that Socialist France could play a role of impartial intermediary in the Arab-Israel conflict: But the state. bombardment of Beirut has agonisingly strained the ties of friendship, and M Mitterrand can no longer claim to have an

influential voice in Jerusalem. This shift was underlined yesterday when Mr Faronk Khaddami, political director of the PLO, saw President Mitterrand as part of the Arab It is the first time that a PLO leader has been received at the Elysee. The day before, Mr. Yasser Arafat, the PLO leader. sent a personal message to M Mitterrand emphasising the "great importance" he attached to the "personal point of view" of the French Presi-

The period of grace with Israel came to an end abruptly. This time you have gone too far . , . we completely reject your declaration," said Mr Itahal Navon, the Israeli head M Navon was M Mitterrand's host when the French President

-breaking with France's re-

Then M Mitterrand annoyed the Israelis by voicing support in the Knesset for a Palestinian

M Navon's remarks referred to an unfortunate news conference last week when M Mitterrand let himself be drawn by a Palestinian questioner into a comparison between the conflict in the Lebanon and the German massacre of French civilians at Oradour in 1944.

M Mitterrand, who personally supervises French Middle East policy, has believed since early in the Lebanese conflict that the attempted destruction of the PLO would only produce an embittered guerrilla war in the Middle East. French diplomacy bas thus concentrated on seeking an outcome to the conflict which would bring lasting peace through mutual recogni-

The first step in this was winning from the PLO leadership a declaration to the effect that they were willing to pass from a "military to a political phase" of the struggle. The second has been preparing a joint UN resolution with Egypt in the hone that this would win in the hope that this would win U.S. acquiescence.

# Palestinian question PLO takes initiatives to gain recognition

SUGGESTIONS that the Pales-tine Liberation Organisation (PLO) might be ready to recognise the state of Israel appear to be only one of several ideas being considered in exchange for leaving Beirut

The PLO, which represents the 6,000 or so fighters trapped by Israeli forces in the city, would expect recognition by the U.S. in return. The organisation's spokesmen speak of "political compensation" for leaving Beirut under conditions which it feels are moving in its

To a great extent the tactics also reflect the new shape of the PLO, squashed into West Beirut where members of the organis ation's eight widely different groups must now live and fight side by side. In these conditions of relative

mity, the Fatah organisation, the largest fighting group headed by Mr Yassir Arafat, chairman of the PLO, and the only PLO member group with relations with Saudi Arabia, has a voice which reflects its size and wealth.

. Under these circumstances, the infinential al-Hassan brothers in Fatah, Hani and Khaled, are said by government officials to be playing a larger role on Mr Arafat's behalf. According to one Lebanese politician, Hani has been seeking a direct meeting with Mr Philip direct meeting with Mr Philip Habib, the U.S. special envoy, on the hills ontside the besleged city, while Khaled bas been mentioned as joining the special roreign ministers. The timing of this Palestinian diplomatic effort is a move towards three-way recognition—U.S.-PLO, Civen the public U.S. stand on relations with the PLO, these mentioned as joining the special roreign ministers. The timing of this Palestinian diplomatic way recognition—U.S.-PLO, PLO-Israel, Israel-PLO—which, if achieved, would change the face of the Middle East.

ISRAEL CONSIDERS COST OF ASSAULT

sanctions by the European Economic Community is one of the factors being weighed by Israel as it considers whether to launch a military assault against the 6,000 Palestinian guerrillas trapped in west Beirut for more than a month, writes David Lennon in Tel Aviv.

Heavy U.S. pressure as well as concern about the likely Israeli military casualties and Lebanese civilian casualties are the dominant elements which have persuaded Israel to permit the prolonged, and so far not very fruitful, diplomatic negetiations to end the

But Israeli policy-makers are also worried about the negative impact of an assault on Beirut upon Israel's rela-tions with the EEC, and with Egypt — the only Arab country to have signed a peace treaty with Israel.

The EEC is Israel's largest trading partner, with 40 per

cent of the country's exports going to the Common Market and some 30 per cent of its imports eriginating from the Ten. Two-way trade amounts to about \$5bn (£2.8bn) annually.

Jerusalem heaved a sigh of relief at the end of June when the EEC heads made no reference to economic sanctions after their summit in Brussels. But Israeli officials fear that if Israel does invade West Beirut, the Community would economic sanctions.

Only two months ago foreign ministry officials were trumpeting the dawn of a new age in relations with Europe, pointing to the unprecedented stream of Europe ministers who had visited Jerusalem recently. Today v say that Israel's standing in European public opinion is "catastrophic."

The officials look in dismay at the sharp turn about in Europe's attitude.

Even without imposing economic sanctions, Europe has already signalled its extreme displeasure with Israel by suspending the signing of a \$40m aid package.

Individually the European governments have taken concrete steps to register their disapproval Britain cancelled Its invitation to Israel to par-ticipate in Aldershot arms fair. France cancelled the schednled hilateral cultural committee meeting in Paris and Greek stevedores refused

to handle Israeli ships. But whether the threat of EEC sanctions will help to stay Israel's military hand remains donbtful. Mr Ariel Sharon, the defence minister, yesterday warned that "Israel's sword is resting on the neck of the terrorists in west Beirut . . . we will not put our sword back in its sheath until the last of the terrorists disappears from

Beirut."

ocused on events in Iran. Some say these will give un-parallelled opportunities to At the sam time, Lebanes who have proved reliable in the Israel for a quick military solupast say that the PLO has made tion. Others argue that the U.S. will be more anxious than ever for a diplomatic solution and cus Government for acceptance make major concessions. As

into Syria. The Israeli charge that the usual, everything depends on PLO is wasting time may have what Israel can and cannot do.

Egypt urges Arab unity over PLO is also attempting to do is to exploit Israel's apparent dilemma by widening the scope **Palestinians** 

By Charles Richards in Cair

Israel, away from the fate of West Beirut or its Palestinians PRESIDENT Hosni Muharak of Egypt has called on Arah states to the larger question of the to forget their differences and PLO's future in the world. They meet to solve the Palestinian are encouraged, by the fact that problem. He said he himself another player-Syria-is now would be prepared to go anyon the diplomatic stage, even if where in the world to attend only in the wings.

There are, of course. PLO members who do not wish to leav Beirut despite Mr Arafat's leave Beirut despite Mr Arafat's such a meeting. Egypt has ties with only three Arab countries The rest broke off relations because Egypt made peace with Israel.

After talks with the visiting German Foreign Minister, Herr Genscher, Mr Mubarak, spcaking at a press conference, urged the European Community to west Beirut Lebanese left and Moslems also have a voice, exert pressure on the U.S. to open a dialogue with the Palestinians. of the western sector and its politics bas been swamped by

The withdrawal of Palestinian forces from Beirut under Israeli occupation was not the solution to the problem, he said. The failure of the Arahs to unite and agree on a way to solve the problem would make it worse and in turn increase disunity in the Arab world, said the Presi-

He attributed the three problems in the area—the crisis in the Lebanon, the renewal of outbreak of hostilities hetween Somalia and Ethiopia-to a game being played by the super

# Australia's businessmen diverted by struggle for Labor leadership

Arab delegation to Washington, promising whatever the posi-comprising the Syrian and Saudi tion taken by Israel. Essentially, foreign ministers. The timing of this Palestinian diplomatic



Bill Hayden . . : confident of

bankers, industrialists and businessmen in an endeavour to prove to them that the prospect Unions. of a Labor Government is Mr H

ventional economy, the estation in Canberra today, except lishment of an economic to express confidence that he advisory planning council, the will win it.

promotion of more Atistralian Mr Hawke, on the other

leader of the opposition, and clash within the Labor Party his leading shadow ministers on resulting from the challenge to the front bench, have met top Mr Hayden by Mr Bob Hawke Liberal-National Country Party the former president of the Auscillant Council of Trade man to achieve it.

Council of Trade man to achieve it. tralian Council of Trade

something that they should wel-come rather than dread. both proclaimed at these break-fast meetings that they have The emphasis was supposedly no differences over policy, on policy explaining the Both inside and outside the decisions that the Australian dining rooms Mr Hayden Labor Party (ALP) reached at refused to discuss the leaderits biennial conference in Can-ship challenge, to be decided berra last week. These include at a meeting of all federal commitments to a heavily inter- Labor MPs at a caucus meet-

is touch and go. Earlier this week it seemed as if Mr Mr Hayden and Mr Hawke Hayden would romp home as the left wing gave him its support. But on Wednesday the party's infinential resources spokesman, Mr Paul Keating, the ALP's key power broker in New South Wales, decided to throw his support and that of

EACH MORNING this week, in incomes controls. But the busi- who cared to listen. The gist the capital cities of the Australian states. Mr Bill Hayden, ably diverted by the leadership Hayden is a great guy but that the said is that Bill Mr Paul Keating, the spokesman and the major unions within the For example, it has yet to if the ALP is to wrest power on resources, are likely to be back from Mr Fraser's ruling able to win the hearts and minds of Australia's traditionally con-

> The cornerstone of Labor's change for solemn and hinding assurances by the trades unions. The essential ingredient of the policy is a gamble; a voluntary prices and incomes policy, on which Mr Hayden, Mr Hawke

next few weeks to negotiate their compensation.

The ALP leadership argue for organised labour because economic policy is a social com- further tough monetarist polipact, of the kind tried and cies and continued high interest failed in the Wilson years in rates can only lead to more un-Britain, in which policies to re- employment. Labour would duce inemployment and achieve adopt a different strategy: an growth are implemented in expansion of the economy through tax cuts and more public spending in the hope of cutting unemployment.

Questions put over hreakfast by businessmen Indicate that

some truth in it. But what the

of the negotiations with the

U.S., and through the U.S. with

written pledge, but in the daily and military committees of the

PLO, they are under pressure from Fatah's overwhelming

To a much lesser extent, the

though what control they had

the Palestinian retreat there. They are mostly anxions for a

diplomatic solution which pro-

problems of analysis of the im-plications of the attention

However, there remain deep

anthority.

tects them.

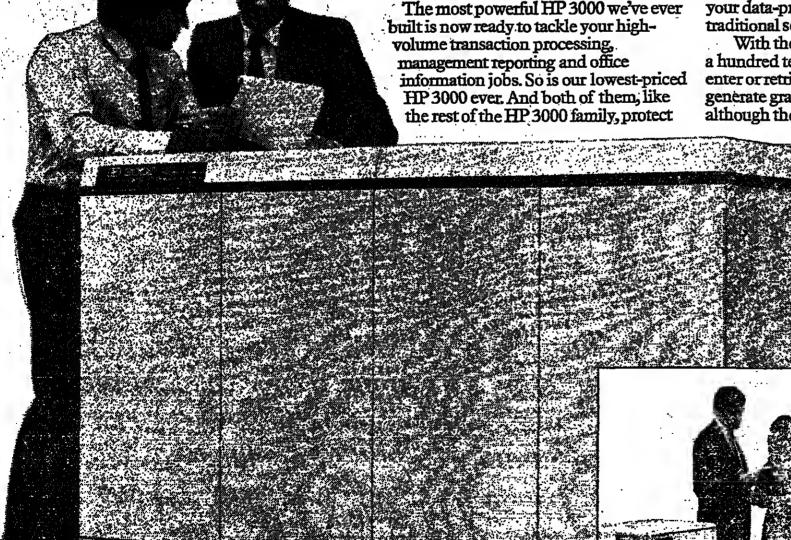
be decided how wide would be the powers of the proposed prices justification tribunal. The Party's business spokesman, Mr John Brown, himself a businessman, argues strongly that retail products should he excluded from scrutiny, wblch is not acceptable to unionists. Then there is the issue of protectionism. Mr Hayden

would like to see an official industry reconstruction bank to "quicken the pace of indus-try restructuring" and a steady reduction in tariffs. Others, senior in the leadership, are promotion of more Atistralian Mr Hawke, on the other Mr Hawke than to Mr Hayden, to spokesman on economics, on the other with anybody hat neither men, nor stalwarts have been working for two and that the policymakers within the Party.



Bob Hawke . . . the man to

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BY REGINALD DALE, U.S. EDITOR IN WASHINGTON

FRESH EVIDENCE of the cur- that earlier forecasts for a rent U.S. recession's tenacity came yesterday with a report from the Federal Reserve Board industrial production seasonally adjusted 0.7 per cent in June. It was the fourth consecutive monthly decline and the 10th

Downward revisions to the May added to the gloom. The Fed now says industrial production fell by 0.6 per cent in May, against an initial estimate of only 0.2 per cent, and by 1.1 per cent in April instead of the cent in th cent in April, instead of the previous figure of 0.8 per cent.

Output has now fallen by 10.1 per cent since last July, raising further doubts over the Reagan administratioo's claim that recovery is round the corner.

The administration has for some time predicted an upturn in the second half of the year, although it has admitted that the strength and durability of the recovery are uncertain. President Reagan has set great store hy the second instalment of his personal tax-cutting programme which came into force

.Private economists, bowever, said that in light of yesterday's in most major categories of husifigures, recovery still looked to be several months away — and possibly not before the beginning of next year. Government manufacturing equipment and manufacturing equipment, it officials also admitted privately

annual growth rate of 4 to 5 per cent in the second half of the year should be scaled down to

nearer 3 per cent.
The latest disappointing figures followed reports earlier this week that consumer spend-ing fell hy 1.5 per cent in June and that car sales in the first 10 days of July were more than 16 per cent below the equivalent period of last year.

The output of cars and other durable goods rose in June by 1.7 per cent, the Fed said. But actual sales of cars have been declining, as fewer companies bave kept up the special promo-tions that boosted trade earlier

Production of non-durable consumer goods fell by 0.5 per cent in June. Business equipment was down hy 2.7 per cent. Both construction supplies and intermediate products fell hy 0.7 per cent Output of business equipment is now nearly 15 per cent below last year's equivalent

The Fed said that the fall compared with a total reduc-tion of 14.3 per cent in husiness equipment output that occurred over seven months in the 1974-75 recession. June saw reduction

### NY toxic dump area declared habitable

BY OUR NEW YORK STAFF

cournood surrounding the Love Canal toxic dump is now habitable. It based its decision on much-celayed study by the avironmental Protection Agency of the dump, which has been at the centre of a political

storm for years. acce Love Canal, near Niagara said. Falls, New York, became an environmental cause celebre in the late 1970s when toxic wastes that had been dumped there 20 criteria, maintain it is still unfit years before started seeping for habitation.

THE U.S. GOVERNMENT'S into gardens. Residents re-Public Health Service has de-clared that part of the neigh-tournood surrounding the Love evacuated between 1978 and

The Public Health Service's declaration applies to the area more than one and a half blocks away from the canal. The area closer to the canal still has unacceptably high toxic levels, it

The report seems unlikely to clear the way for resettlement.

### Jimmy Burns in Buenos Aires assesses possible effects of a Falklands post mortem

Deeper rift threatens Argentine military

inquiry loto the Falklands war is poleotially of deep signifi-cance for the future direction of the country's politics.

Both President Reynaldo Bignone and General Cristino Nicolaides, his army chief, are boping to guarantee a period of stable mulitary rule until the promised return to full demo-cracy by 1984. But, by deciding to look at the conduct of individual officers directly crindirectly involved in the campaign, they risk deepening the rifts which already exist within their ranks.

The troubles of Argentina's ceotral institution has left the country with a sense of collective vertico at a time when the political parties are themselves not fully organised.

There is no tradition of demo-crotic self-questioning in the Argeotine armed forces. They have, after all, refused for over six years even to consider the calls of human rights cam-paigners to hring to justice some of the more blatant cases of corruption, torture and cold-blooded murder that took place during the campaign against left-wing guerrillas in the 1970s. The Falklands war, however,

has turoed military tradition— forged in the course of this century around the concept of national security and an un-rivalled hold on demestic politics — inside out for the Argentine armed forces. There ing defeat in an international

military code that specifically requires an investigation in the aftermath of surrender, but also by intense and widespread pressure for a post-moriem. In the wake of the Falklands

war, the doublethink induced by approaching reality. The generals picked their conscripted army for the Falklands armed forces.
from outlying and isolated It is evid regions of Argentina, rather than from the mere politically emotive Buenos Aires.

In defeat, returning prisoners intense psychological debriefing But these tactics have not mander of the Argentine gar-succeeded in quelling the eye- rison in Port Stanley, has the was no precedent for a humiliat- succeeded in quelling the eye-ing defeat in an international witness reports eagerly picked

information.

Many conscripts and non-comasioned officers are believed to have been hastily discharged already, but the hitterness bas persisisted and is filtering out through junior and middle-rank-ing "professional" officers. Most government propaganda has ing "professional" officers. Most given way to something more of them are demanding not only a purge of "guilty" superiors but a thorough reorganisation of the

post mortem entered its deci-

It is evident that formar president . Gen Leopoldo Galtieri, ousted in a bloodleas palace coup soon after the surrender of Port Stanley, was not of war have been submitted to a lasting scapegoat. Only with intense psychological debriefing the return this week of the last sessions conducted by military remaining prisoners of war led intelligence before being by Gen Mario Benjamin allowed to talk to their families. Menendez the former com-

The regime has found itself to get their revenge on the not only tramelled by a dusty authorities for months of mis-

Anger mounts over gifts that went astray

It will not be easy to estab-lish blame for the decision to invade the Falklands on April 2 without implicating most of came so quickly that many Argentina. "The Malvinas" as addiers could hardly underevery Argentine will never tire of telling you, is the one issue which has always united the country. In the aftermath of the invasion on April 2 it was the fact of baving the islands which mattered rather than the methods used to get them. When the military surrendered, how-ever, explanations were de-

force brigadier and at least 100

have painted a grim picture of rumblings within the military baving to face heavy artillery are likely to continue.

last minute. There has also been much talk of corruption and cowardice among aenior officers.

There has been intense criticism within the military of the use of conscripts and of the general strategy pursued for most of the war. In particular that the characters were the constant of the strategy lar, the decision not to throw more troops at the British when they first landed and to gamble

instead on a defensive "Maginot line" around Port Stanley rather than to fight harder for Goose Green and bas come under

Menedez pledged publicly to fight to the "last drop of blood." He chose to put 20 soldiers in each trench, rather than three or four, thereby needlessly sacrificing many young men in the beavy British artillery fire. In the end, however, the surrender stand it.

The prestige of the army has emerged clearly bruised from the Falklanda war, and it is within its ranks that the coming debate is likely to be the

In comparison, the air force Returning conscripts have talked about being badly fed and clothed, and of being provided with inadequate equipment with which to fight the British. A number of the state of

### Nicaragua claims invasion by Honduras

By Anatole Kaletsky

THE NICARAGUAN Government claimed yesterday that Honduras had launched an invasion intended to overthrow Nicaragua's left-wing divistra regime.

"A big well-creanised mili-tary force" had penetrated Nicaragua ander the cover of right-wing guerrilla attacks on numerous frontier between the two countries, Sr Lais Carrioo, Nicaragua's vice-miolster for the interior aaid

yesterday. Both Honduras and the U.S. atate department have denied the Nicaraguans' invasion claim. There has been sporadic fighting on the Honduras-Nicraguan border throughout this year between the Nicara-guan army and anti-Sandlnista guerrilla forces. According to the Sandinistas.

the Honduran armed forces bave been increasingly involved in these clashes, and bave been strongly encouraged by the U.S.

A state department official said that yesterday's invasion claim was "just the latest exemple of the Sandinistas crying wolf as a pretext for meintaining their military alertness and putting their people under even tighter poli-tical control. Henduras would not have the military resources to attack Nicaragua even if it wanted to."

The President of Honduras. Sr Roberto Suazo Cordova, was in Washington this week to seek more military and econo mic aid from the U.S.

### Haiti sacking may halt loan talks

M MARC BAZIN, the Haitian finance minister and a notable opponent of corruption ad tax avoidance, Is among nine mem-bers of cahinet who were dismissed by President for Life Jean-Claude Duvalier on Mon-day, Hugh O'Shaughnessy, Latin American correspondent, writes.

His dismissal may lead to the end of negotiations between the Duvalier regime and the International Monetary Fund (IMF) for a \$40m loan.

During his brief tenure of office M Bazin had antagonised many powerful figure including M Ernest Bennett, M Duvalier's father in law, whom be pursued for back taxes on his import

### IMF team to examine plans

BUENOES AIRES—A team of officials from the International Monetary Fund arrived for talks with Argentine authorities on the Government's new financial

Its leader, Christian Brachet, aald it would try to evaluate Argentina's chances of puling out of its economic difficulties. which include foreign debts of \$35bn equal to 31 years' exports. much of which is due to be repaid sbortly.

Mr Brachet said that Argentina had no oustanding loans with the IMF and that the team would not draft any policy pro-

### BY JIMMY BURNS IN BUENOS AIRES

Gustavo Vidal wrote a note to the counter in a local retailer's a "dear Argentine soldier fighting for our nation." wrapped it round a bar of chocolate, and took it to school.

Hundreds of schoolchildren around the country joined in such patriotic contributions to the war effort. Teachers collected the chocolates and letters and took them to distribution points for despatch to the Falk-

Last week, Gustavo's letter was returned to his mother by that he personally was investisome neighbours. It had never gating a number of serions left the Argentine mainland. allegations made The note was found around a parishioners.

seven-year-old har of chocolate hought across

Gustavo's case is the latest in a series of revelations which have been appearing in the local media, alleging that military personnel misused voluntary contributions.

The marketing of goods which the civilian population voluntarily donated was denounced publicly this week by Juan Corti. a former military chaplain on the Falklands. He said

"I think the time bas come month claimed that a total of for Argentines to face reality 656bn pesos (£18m) had been head on, something which they received in cash, although no have not done so far," Father Argentina's ruling junta spon-

Mrs Thatcher sent the task force towards the Falklands. Individuals and husinesses also made generous donations in goods which were sent directly to military sorting offices. The Argentine treasury last

Argentina's widely-read satirlsored a nationwide appeal, the cal magazine Humor this week "Patriotic Fund," soon after published a hiting attack on the

detailed accounting had been

conduct of military officials claiming that a number of Within days, thousands of pesos senior officers spent most of the and jewellery, including mar-riage rings and necklaces, were on the mainland. The magapouring in to a special account. zine alleges that when the war ended, most of them left with out paying their hills. Such allegations can only fuel

the confroversy raging within

### WORLD TRADE NEWS

# **EEC** proposals put forward for easing of GSP

ducts.

BY JOHN WYLES IN BRUSSELS

THE EUROPEAN Commission has sent proposals to EEG Governments for a slight liberalisation of the Community's Generalised Scheme of Preferences (GSP) which confers trading advantages to 123 developing

The proposals cover the years 1983-85 and the reaction of govornments should offer an interesting reading of their curren: protectionist inclinations.

The Community likes to point to the GSP as evidence of its political commitment to expanding trade with the Third World. although in recent years it has been crecting numerous quotas and ceilings on imports so as to shelter its most vulnerable

ladustrial products from the GSP countries enjoy lariff free access to the Community but individual newly-industrialised countries and sensitive products are subject to import Limitations.

The Commission is proposing a 15 per cent increase in imnorts of non-sensitive products and a similar increase in individual country quotas and

But it is ruling out any in-creases at all, and, therefore for products from China.

THE THAI Government has

ing all its cas for itself.

immense in ignore.

exports, including Mr Chatichai

Chocnhavan, the Industry Miois-

Pacific, which has discovered

BY IONATHAN SHARP IN BANGKOK

the proponents of ga

glomerate of companies.

The decision was a hard one, are estimated at \$1bn anoually.

ment has opposed any overscas and South Korea, which would

would be better served by keep- the That LNG, bave also made

hupe deposits in its concession, the formation of a high-level in the full. Thailand in committee to decide how the

a split indicate the That con- new policy is to be about a

The projected export earnings

be the most obvious outlets for

proposals for developing the

The Thai Cabinet has ordered

Several companies in Japan

optimism over China coal plans

British

proposing a fall in real terms. for certain sectors whose EEC industries are in crisis-principally steel, footwear and leather and some chemical pro-Nine new individual country

quotas for sensitive products are proposed along with the elimination of seven other country quotas. guim. Spain and Italy. Meanwhile, fertilizers and

footwear with non-leather outer soles are to be added to the sensitive list which is subject ! to import callings while eight other products would be re-On textiles, the Commission is proposing a general 5 per cent improvement in both allo-

cated and non-allocated ceilings except for certain dominant whase. suppliers and state trading countries.
The GSP allowes reduced This time scale may be a bit

tariff entry for 324 agricultural products and the Commission is proposing increased preferential inclusion of nine new products, including horseradish, okra. dates and snails, revised quota shares for some products and full access to GSP preferences

Thai Government to allow natural gas exports

The Chinese see the Shand.st announced after months of The proposal is to export gas hesitation that it will allow the in the form of liquefied natural export of some of its supplies gas (LNG) and involves invest-of natural gas in the Gulf of ment of up to \$3.7hn (\$2.1bn).

key to British participation in these plans will be the availability of cheep finance.
Britain has a tray programme of aid to China amounting to expansion.

The Thai Government decision permitting exports does not he small they could provide funds for a feasibility study, especially if mixed with tor, have successfully argued in itself give the green light to that the contomic benefits of the proposals by Texas Pacific exporting the gas are 100 or anyone else. An official at emport Credit finance . Texas Pacific said he could not The most ambitious scheme comment because the company for expecting natural gas has had not been formally notified been put lore and by Texas of the Government move.

by major British backs with the export cradit quartities deportment in the 1979s

6y Colina MacDougall

BRITISH businessman cautionaly optimistic about the prospects of participating in China's cool development. plans following the two-works visit to British this mouth of a delegation from the China South-West Energy Resources United Development Corpora-

The mission had already visited France, West Germany, Rai-

China's plans for power, fran-port and chall development in the four south-west provides of Vennan, Guang, Guitaru and Guancidone involve up-grading coal output in Guichen from the present 7m this annually, to 15m in the first phase of the plum and in about 25m in the second

Total investment in planned to be about 88bm over 15 years.

short," said one businissmer, "Guizhou is like some persite ment has hardly about the some of the mainthour to handle its bugg covil teams—some run to 6" inser. in width-has not been invention

co-operation in cost develop-ment in other parts of China Apart from an loast some mines, projects are likely to include chall properting and casification plants

arrangement, for the elpishtaking five format young ven-tures, componentian made export credit, ica-and at a mine site to a foreign companys and outsigns purchase of equipment.

£180,000, though the Government is considering a modest While the sums involved may

Only about 30 per cent of the indeposit facility. The Bildho fund set up for Chican use

Zimbabwe throws switch for electricity scheme THE SIGNING in London this 50 per cent to existing installed is policy to reduce dependence have been let for the first phase week of a f134m financial pack-capacity, but even so load on imports, the decision was of Wankie two. The Italian age for the supply of boilers and related equipment for stace two of the Wankie thermal. power station complex is part of a huge public sector invest-

for anticipated load growth in There was little investment in new generating capacity in Zimbabwe during the 1960s and 1970s following the commisstoning of the Kartha hydrodisciric power plant in 1960. Work started on stage one of the coal-fired Wankie plant in the early 1970s but was aborted and to economic and financial vanctions. The project was revived after independence in 1957 and is scheduled to come

ment programme by the Zim-

batwean Government designed to reduce depandence on im-

ported electricity and to cater

This will enable Zimbabwe 1987. in start cuiting imports of electricity from Zambia which cur- in terms of capital and recurcently account for 40 per cent of total usage. Wankie one will add nearly needed before 1987, and since it

on stream by mid-1983 with a

renerating capacity of 480 MW.

growth forecasts still point to a serious shortfall of around

announced in January this year Ansaldo Group has been to proceed with phase one of awarded the Z\$40m (£30m) tur-100 MW capacity during the periods of peak demand by This involves a capital cost, 1985. The preferred option for based on 1981 prices, of Z\$188m

Tony Hawkins in Harare reports on a £134m boost for the Wankie power station

There was little investment in new generating capacity in Zimbabwe during the 1960s and 1970s following the commissioning of the Kariba hydroelectric power plant in 1960. Work started on stage one of the coal-fired Wankie plant in the early 1970s, but was abated because of economic and financial sanctions.

Zimbabwe following the commissioning next year of Wankie One would have been the extension of the south bank hydro plant at Kariha. This would provide a further 300 MW capacity at a cost of Z\$110m (£83m) and would come on stream in

This would be cheaper both rent costs, but since forecasts suggest extra capacity will be

(5141m) and envisages installation of two sets of generators each with an installed capacity of 220 MW. A further two sets of generators with the same capacity (phase two of Wankie iwo) were also covered in the contract aigned this week with the British-based Babcock International group which will supply the boilers. The extra two sets of generators are

optional at this stage.

bine contract while the con-tract for high-pressure pipework worth Z\$14m (£10m) has. gone to Engineering Development, a British Steel subsidiary. On the assumption that Zimbabwe goes ahead with both

phases of Wankle two-four sets of generators with a total installed capacity of 880 MW— as well as with the extensions to the South Bank of Kariba. Total investment will cost nearly Z\$500m at 1981 prices of which some Z\$315m will represent foreign currency spend-

Weighing heavily on the minds of the Zimbabwean planners must be the cost implications of the alternative longerrun options. Hydro electric schemes-in addition to extending Kariba South-include extension to Kariba North (on the Zambian side) at a cost of ZS100m for 300 MW capacity. Three other sites, along the Zambesi River would cost ZS4bn for 4,800 MW of in-Two other major contracts stalled capacity.



Robert Mugabe: country can start cutting imports of elec-

# Libya reduces volume of OECD imports

BY FRANCIS GHILES

JEVA is cultime the volume of plised countries, according to statistics released by the OECD to statistics of foreign trade.

Total imports from OECD countries declined from a money average of \$1.1bm (£611m) during the last quarter 15 1981 to 8597m last January. Indications from some European countries suggest this trend has continued throughout the Free quarter.

Libyo has also been delaying priments on conds already countries and has sought to pursue barter However, the backlog of pay

ments to OEGD members is estinated to have reached at least 32'm and senior Libyan officials nahnowingse that it cannot be thered before the end of the

Libyana countries, meh as Italy, countries,

mode it imports from industri- AVERAGE MONTHLY VALUE OF LIBYAN IMPORTS FROM OECD COUNTRIES: SM

1981 1st quarter 2nd quarter 1,103 3rd quarter 1.097 4th quarter 1,108 1982 January

have sought to accommodate the italy's average monthly ex-

ports to Libya were running at 363m last year, a figure which accounted for about one-third of all Libyan imports from industrialised countries. Agreement was reached -just

over a month ago—between Italy and Libya whereby Libya would settle L800bn out over-This has led certain Western due back payments to Italian cipital to held back payments companies, over which there is no dispute while the position of no dispute while the position of ine remainder. L1.500bn will be The Spanish Covernment re- decided by a special joint comor dies with a measure last mission set up by the two

At the same time, Italy agreed agency, should acquire 100,000 b/d of extra Lihyan crude, at prices reflecting those on the European market. British companies, whose

exports to Libya were worth about £500m last year are also complaining of long delays in payments due from Libya. Some bave heen paid but the Libyan dinars they bold in

Lihyan accounts cannot he transferred abroad because they are finding it impossible to obtain authority to convert to obtain authority to convert currencies. Other companies which have signed contracts on which the first downpayment is due are finding it impossible to obtain the Libyan bank guarantees

which are a prerequisite to being paid. Although Libyan output of oil is estimated to have increased recently, maybe to as much as 1.1-1.2m h/d, the average manthly figure is estimated to have been around 667,000 h/d. 3 58 per cent rise on last year'a



Col Gadaffi exports and one which would have brought just over \$2bn into the Libyan exchequer during the first three months of

This figure compares with a agure of \$15.7bm in 1981 and average monthly figure of somethin in 1980.

### tricity from Zambia South Africa mines pay push JOHANNESBURG-The 14,000

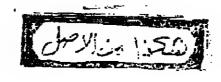
underground officials at South African mines are seeking a further pay review with employers after white miners accepted a 12 per cent compromise pay deal earlier this week, according to the Underground Officials' Association secretary Mr Doc Coertze, The association, a registered

visory staff, is now accking a 14 per cent pay rise, though it earlier accepted a 9 per cent increase at the annual review. A Chamber of mines labour

trade union representing white

senior non-management super-

adviser said the chamber, which represents employers. told all three officials' associations that it would negotiate a further wage review.



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Argenta is Italian for silver, but clearly this new Fiat is worth its weight in gold.

The new Argenta £6.345.

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### Sharp fallin unit trust investment

first half of this year amounted to £185.4m, according to figures issued yesterday by the Unit Trust Association. This is less than 60 per cent of last year's corresponding investment.

Sales of units have derlined by a quarter over the period. from £539.1m to £407.5m. Repurchases have however risen slightly, from £215.301 to £222.1m, contributing greatly to the overalt decline in net new

investment io unit trusts.

However, 1981 was the best year for uoit trust investment, new investment of £528m, both doubled the previous records. The first six months of 1982 can, therefore be regarded as satisfactory.

The growing number of units being repurchased shows for investors to cash in their

Two reasons are put forward for this. Firstly, more and more trusts are reaching



maturity and investors would be realising their investment in the usual course of events. Secondly, investors are become ing more active in the management of their unit trust port folios, often taking professional advice. They are selling units to reinvest the proceeds in other

### Liverpool leisure complex to go ahead

A PLANNING application for a leisure complex at Liverpool's south docks was approved yesterday by the board of the Merseyslde Development Corporation, despite opposition from city centre retailers and local authorities. The decision is the MDC's first conflict with iotal government.

A consortium of pension funds is considering investing £9.6m in the project.

Objectors say the Pavilion THE STOCK EXCHANGE'S sustain a charge of excessive might be presumed if the deal-development, which will include iruling council has warned that trading it must be shown that an 80,000 sq ft superstore and 40 shops, will damage slupping in central Liverpool, where the recession has already damaged

Thompson, the MDC's deputy in which brokers have traded chairman, said: "If we succeed excessively an hehalf of a regenerating the disused docks, Liverpool will buom tive of generating commission again. The city centre shops income and without due regard will do as well as everyone for the interests of the ellent.

Peter James developer, said a hank had offered to lend the rest of the involved brokers getting a security involved," says the money if the pension fund backing was finalised.

### Daily Mail cleared in contempt case

THE Daily Mail and Sir David English, his editor were cleared by the House of Lords " storday of contenue of court in publishing an article on the secretty of life during the "mongot usby

Five Law Lords rated un-mimously that a "paddic dis-cussion" defeate provided by section 5 of the 1980 Contempt of Court Art was intended to the "gazging genuine descrission in the procontroversial matters of general public interest merely and staff. necause of contemporaries. legal proceedings to violeh those

matters mucht be activities. The Bedy Mail had published an article by Mr Malletin Muzzeridze in scapor of a prodife" cardiblete in a byelection during the trial of a doctor, who was later acquitted if attempting to runder a thresday-old mongol body by giving instructions for the use of a drug which caused the baby in

die of survation. In February, the publishers were fined \$500 by the High Court for contempt. That fine was set aside by the Lords. Sir David had not been aned.

### Conference centre project announced

PLANS TO invest more than £20m at Trentham Gardens, a former stately home near \$1050. on Trent, to develop a conference and tourist centre were announced yesterday. The developer said the project could provide direct employment for at least 1.500.

### Ship simulator opens in Wales

A SHIP simulator, claimed to the most advanced in the world, was officially opened in helical ways for the market to last a marine underwriting Cardiff yesterday by the Prince.

Cardiff Ship Simulator (Care 32-day your hearing and at the sim) has been developed by and of a two-hour reserved liome insurance Company. Marconi Radar Systems and Racal-Decea at a cost of \$15m. tis features include full compater generated simulation of daylight, dusk and night visual

# MoD draws up defence package to protect the Falklands

BY BRIDGET BLOOM, DEFENCE CORRESPONDENT

EXACTLY a month after to sovereignty of the islands, clude the repair of war damage General Menendez surrendered and probably never will. They to Ceneral Moore in Port Stan- note that in spite of the deprasignalled a formal end to the still has quite a capable airforce war over the Falklands by agree and some potentially dangerous ing to repatriate the remaining ships and submarines.

Defence in London will have worked out, in the light of the Government's decision, how it is to defend the Falklands in the immediate post-war period. Ohviously the size and nature of the defending British forces with he conditioned by the nature of the threat the Argentines. tine's are still seen lo pose.

Argentina has refused to admit to more than a "de facto cessa-tion of hostilities." and while the Foreign Office announced on Monday that it was sufficiently satisfied with this to send the prisoners back. Britain's defence chiefs are inevitably being

Government dations of the war, Argentina

That was on Monday this discussion at the highest levels week. By Monday next, it is in the MoD about the precise possible that the Ministry of size of the necessary defences. The outlines of what the Chiefs of the Navy. Air Force and Army will recommend to Mr John Nott, the Defence Secre-tary, are becoming clear.

aspects of any defence package.
First is the key importance
of extending the runway at Port Stanley, both to assure the air defence of the islands with Phantom fighters and to free the aircraft carrier Invincible for home leave and then other

Second is the need to strike a balance between the actual garrison in the Falklands caulious. They know that Argen-tina has not given up its claims whose duties for the next six way back. Some 3,500 men of mooths at least will also in- five Brigade remain: the Welsh

- with the desire ant to swamp the civilian population.

Third is the problem of finance. Service chiefs recognise that the blank cheque they have had over the past four months to order what they need will not last much longer. All three armed services are also worried that the Falklands could tie down men and materiats needed for areas more central to Brilish defence.

Since the fighting ended a month ago, the principal concern on the ground has been to bring order to the inevitable coofusion which follows war. The priorXies have been dealing with prisoners, re-establishing the civil administration, clearing up the worst of the mess-and hringing home the troops that fought the longest. Nearly 5,000 men, mainly

marines and paratroopers whn left the UK last April, have either returned or are on their BRITAIN may lift economic sanctions and remove the total exclusino zone around the Falklands before the end of the month, according to reports circulating in Westminster vesterday. However, the arms embargo would

Admiral Sir John Fleidhouse is to take over as First Sea Lard at the end of the year from Admiral Sir Henry Leach, the Ministry of Defence confirmed yesterday.

Guards are in Staoley itself, and the Scots Guards, who until this week were responsible for the prisoners, are assigned to up-country duties along with the Ghurkhas. Some 600 Royal Engineers have had a critical rote in repairs of, for example, the waterworks in Stanley, and will soon extend the runway there. Falklands
It seems that the oaval forces island base.

have also been reduced by about a half; HMS Hermes, the air-craft carrier, docks on Wednesday and 11 other warships have returned or soon will. The Type 82 destroyer HMS Bristol is now

Invincible remains for the time being, with perhaps 12 Sea Harriers on hoard. There are also eight other frigates and destroyers — two Type 42 destroyers, three Type 21 frigates and three Leander class frigates - with several minesweepers, a range of royal fleet auxiliary tankers and support vessels complete the force of 20 or so RN ships. The Ugaoda and some 15 to 20 other merchant vessels, iocluding tankers, are also still under charter.

The atrength of the RAF. which is flying several ground attack Harriers and helicopters. but is principally involved in the enormous transport opera-tion, is still put at around 1,000, divided between the Falklands and the Ascension

The new defence arrange A land garrison of between ments will probably cover the 1,500 and 2,500 men, including next 6 to 12 months.

a detachment deployed to South

The key elements will be:

· Extension of the runway at Port Stanley to 7,000 fl, to take at least ooe squadroo (around 10) of Phantom fighters. The for three or four weeks, probably in August, while Royal Engineers fit U.S. made alloy matting, currently being trans-ported by ship. The matting should last for up to four years.

There are no plans for second runway, although helicopters and Harriers will use
San Carlos and possibly Darwin.

San Darona of the side of the sid • Defeoce of the airport by at least eight Rapier acti-aircraft missile systems, with the pos-sible use of Nimrod reconnaissance aircraft. Some Sea King helicopters have already been fitted with early warning radar. Some Raplers are to be deployed on West Falkland.

a detachment deployed to South Georgia. There is snme dis-agreement over the precise numbers of operational soldiers needed in addition to the esti-mated 1,000 engineers and

logistic, HQ and support troops airport, now taking Hercules.

Cl30 transporters will be closed least five frigules and at leastlar one nuclear-powered submarine ery one nuclear powered submarine ery one nucl considered essential. It has oot yet been decidedere whether an aircraft carrier willthe be necessary once the airporthat is extended. Neither is it clearlay what size merchant fleet, withdisor without escorts, might becan

No estimates of the cost of a garrisoning the Falklands have been made public. Mr Noturo specifically excluded garrisonices costs when be said the Falkage lands exercise up to June new had cost "snmething overper £500m." It seems highlight unlikely that running costs, a least for the first year, coulted

# Growth of money supply remains within targets

THE GROWTH of the money supply remains within the Government's largets but the persistently high level of bank lending to the private sector is starting to suggest that, if continued, it could lead to another

Sterling M3, the broad measure of money supply, rose by 4.8 per cent, seasonally djusted, in Banking June, the four weeks to June 16. according to Bank of England figures published yesterday. This com-pares with a rise of 1.1 per cent lo Banking May.

The broad measure of private paymeots. sector liquidity, PSL2 [covering sterling M3, building society deposits, national saviogs and money instruments) rose by 0.6 per cent. The narow money measure M1 tholes, colos and current account deposits), rose by 2 per cent, seasonally adjusted, and the annualised rale remains very low at 6.3

disciplinary action may be

taken if members are found

excessively trading clients'

The council says it has

come across occasional cases

client, with the primary objec-

share of the commission from code.

accounts.

· churning.

their firms.

BY JOHN MOORE, CITY CORRESPONDENT

MONEY SUPPLY Per cent increase rate 0.8 2.0 1.2" 0.6

\* Not seasonally adjusted. sents a change in habits away from cash and lowards greater use of credit cards and con-cash

These figures are offset to sterling leoding to the private This is substantially sector. below the exceptionally high February, March and April figures, each of which was around £2bo and caused considerable anxlety.

However, in those months the

SE council warns on churning

the account was broker con-

An unreasonably high turn-

over whuld indicate excessive

trading. The turunver rate is

defined as the ratio of the total

value of purchases in the period

under review to the average

value of the portfolio in the

"Whether a turnover rate is

upon the circumstance, of undi-

TSBs plan regional grouping

they have to some our the

The central bound is under-

principal feature on the re-organisation. They will be discussed with Treasury of the

sectoral months. They are and other interested parties legislation developing into fully-fledged over the next couple of wight. The 16 TSBs which have banks and have been given. It is expected that a formal 1.65% branches made product exchaption from certain regular announcement will be made profits of 266m in 1981 and lines that applied to clearing and this month. The negotian 2 and worth of more than 2500m.

incorporated societies.

same octind.

The practice is known as unreasonably high will depend

It says most such cases have vidual cases and on the type of

The Stock Exchange has activity is not itself sufficient to

charming. The code says that to charge. But excessive trading

BRITAIN'S 16 Trustee Savings other banks, under the 1970 Banks (TSB) have finalised Banking Act until 1985, The

plans for a substantial reorgani-sation of their business, which could lead to a consultdation of tail that the latter's resultations

their op rations into no more than four regional banks, and probably result in an eventual. However, before the TSBs for

offer for their sale to depositors | develop into fully fledged lands

The Trustees Savines Banks problem of awnership. The control Board, which exercises cream regulatory and super-isor; powers over the TSBs, but in London yesterday. It is the control of t

several months. They are and other interested perfect developing into fully-fledged over the next couple of wight banks and have been given. It is expected that a form.

BY WILLIAM HALL, BANKING CORRESPONDENT

resided a vode of conduct on rebut an excessive trading areas

whereas in May and June it was in deficit as the public sector transactioos returned to net expansionary effect. In addi-tioo, there was substantial roued-tripping in February and March which was not a feature

City analysts feel that May and June should have produced bank lending figures well below Ilbn and that if the high level persists the money supply targets could be threatened. The Bank is not anxious to discourage hank lending but does want to offset its adverse

It may be that the authorities would not he too unhappy about a sterting M3 overshoot if the new monetary aggregate M2 t private sector transactions balances) continues to grow

In June the unadjusted M2 rose at ahout the same rate of 1 per cent as unadjusted sterling M3. hreaking the pattern It is increasingly likely but central government boltrowing of the previous six months not yet defiolie that this repre-requirement was in surplus when M2 hardly grew at all.

ing pattern atherwise generally

indicates disregard for the

to be in clients' interests would

he another indication of exces-

althnugh the "practice is easier

to recognise than define" It will

• The Stock Exchange has also

issued guidelines on payment

by hrokers for services to non-

members, "For a service to he

provided the brokerst at an

tranally commissioned-financed

Men and Matters, Page 16

les station should be tabled to

detelop into hanks as defined by law. The first has been inc

fired to reduce the number of

regional banks to as to reap

communies of some waile not

second using to the appearance of a contraction and in the second

abely that the TSBs will be the

subject of a limited offer for

the to their rad amora that or

It is trader and that the central bear fixours a form of

ownership which would compit

with the televint Companies

discreting form! loyalities

more) and staff

The TSBs have faced two

charge it must be demonstrable

ke disciplinary action

Dealings which do not seem

But, the Exchange warns that

cheni's interest.

sive trading.

A net profit during trading that it falls within the tradi-

### BAe to lead contractors for comet satellite

By Michael Oonne Aerospace Correspondent

BRITISH Acrospace's Space and Communications Division has been appointed prime contractor to the £34m European programme to provide a satellite in intercept and study Halley's Comet when it passes Earth In 1986.

Halley's Comet is visible from Earth every 76-years. It is due to make its next appearance in four years, flashing past the Earth at a speed 50-times faster than a rific bullet and 150m kilo-

metres away. To intercept and study such a high-speed phenomenon in space is probably the most demanding technological task yet given to the feam of space scicotists headed by British

Aerospace.
A simple satellite will be huilt for the task, and it will have only about two hours to study the comet as it passes the spacecraft at 68 km a second.

The £34m spacecraft being prepared for this fleeting mission is called Glotto—after the mediaeval Florentine painter who included in the background of noe of his pictures what is now widely regarded as a pictorial repre-sentation of Halley's Comet on its appearance in 1301. The ficetiog nature of the interception will test the skills of the BAc scientists and

engineers, and the nine other European contractors who will share la the veoture, under the acgis of the European Space Ageocy. One of the lasks of the Giotto spacceraft will be to

surmunding the nucleus of the Comel — and the trail of gas and dost that trails behiod greater than that hetween the Earth and the Moon. Other experiments will examine the effects of the

comet's passage. These experiments will he prepared at universities inctuding Heidetherg, Berne. and Landon, with more than 20 industrial companies from nine countries also taking

### **Pharmaceutical** exports grow

By Suc Cameron PHARMACEUTICAL exports nf £246.1m in the first quarter were up 27 per cent on the estimate for the same period lasi year.

Figures from the Association of the Brtish Pharmacentical industry show UK medicine imports during the quarter were 185.5m. up 50.6 per cent on the same period The association said vester-

day the overall pharmaceutical trading surplus had risen in £160.6m in the first quarter of 1982. This was 16.9 per evot higher than the £137.3m for the first quarter of 1981.

# Internal review by civil aviation chief

BY OUR AEROSPACE CORRESPONDENT

A WIDE-RANGING review of A WIDE-RANGING review of the functions of the Civil Aviation Authority (CAA) has been started by Mr John Dent, the new chairman, at the request of Mr Iain Sproat, Parliamentary Under-Secretary at the Department of Trade with responsibility for civil aviation.

The review will cover such matters as whether airlines are required to undertake too much paperwork, whether the charges for the CAA's services are too high, whether the aothority is sensitive enough to the needs of its customers, and whether there is "too bureaucracy and too bureacrats" in civil

its charges were raised. the new chairman was a busi-oessman. "I have asked him to look with the fresh and keen eye of a businessman at the operations of the authority." He is to report to Mr Sproat before the end of the year.

review when he opened a new administration block for Britannia Airways at Luton.

He also said that he had received from the British Airports Authority plans for the injection to it of private capital, which he would be discussing chairman. This was by way of comment on proposals yester-day hy MPs that the airports There bas recently been authority should be broken up strong criticism of the CAA, and its airports passed to priespecially of the way in which vate enterprise.

### Sir Keith wants voice in university development BY MICHAEL DIXON, EDUCATION CORRESPONDENT

AN UNPRECEDENTED step Dr Edward Parkes, the UGC to bring the development of chairman, saying that at the universities more into line with national level, where the uni-Government policy was taken yesterday by Sir Keith Joseph,

Education Secretary.
At present, universities receive their public money through the insulating-medium of the University Grants Com-mittee and are free from political influence over their

versity sector's activities impinge on economic and other central policies, the Government must now have a

"At this level there will be some strategic decisions for which it would be appropriate for ministers to take explicit responsibility and to answer to But Sir Keith has written to parliament," the letter says.

### Education idea opposed BY ROBIN PAULEY

tion services from local difficulty developing a policy-authority corporate management making role, except for those

is likely to have the same disadvantages for the consumer as administration such as health occurred in the National Health authority chairmen. Service, a paper published today

Institute of Public Finance and Accountancy, comments on the possibility of financing educaturs to the disadvantage of social services. elected representatives and con-

The appointed democratic ele- an education block grant.

ANY SEPARATION of educa- ment in the Health Service had closely identified with

The institute says education ought not to be regarded in iso-The paper, by the Chartered lation. It was related to social recreational services, and to unemployment counter-measures. tion through a separate block- and separation would lead to grant. It says this would pressure for similar treatment enhance professional administra- for other sectors, particularly It urges a Green Paper-type debate before final decisions are taken about

# Plastics body in debts fight

BY SUE CAMERON

THE British Plastics Federa- £69,000. The federation revealed only under 30. yesterday just how near it had A total of £23,000 of the come in "disaster." Part of the aleged illegally diverted funds problem had been the result had been recovered, but debts

of the alleged "illegal diversion" The Federation had an annual budget of about £500,000. By the end of 1980, it was in debt to the tune of £205,000. Last

tion, the trade association embracing over 350 plastic material ever, that it was now breaking The federation stressed, howand product manufacturers, even. Firm steps had been almost went to the wall last taken to cut spending and staff year because of massive debts. had been reduced from 51 to A total of £23,000 of the

still stood at well over £200,000 the federation said yesterday but the bleeding has stopped. Although we have an accumulated deficit, we believe we can year the debt rose by another now face the future."

### Wiggins Teape to invest £9m in paper mil

THE Wiggins Teape group yeamterday announced plans led invest a further £9m at its Ulate carbonless paper manufacturin ing mill in Cardiff and to corial centrate production on one sithe oearby Treforest Pontypridd. Manager The rundown of the Trefr. forest sile will extend over two years and involve the loss of 25th jobs. At present the two site: 1 employ 1,390 people. The movind is designed to strengthen this company's leading position in the .UK carbonless copying.

paper market.

Carbonless paper, which Wiggins Teape markets nnder there in the brand name, has been enjoying paper of the highest growth rates of any product, within the paper industry. But the market has been subject to the stiff competition from the Constitution from the Constitutio stiff competition from the Continent and Japan, as well as, other UK domestic producers.

Wiggins Teape has already invested more than £26m oo new papermaking coating and finishing equipment at the Car-diff site, which the company claims is potentially one of the most efficient carhonles's paper

mills in the world.

"By integrating our husiness on the Cardiff site, which is equipped to make, coat, finish, pack and store carbonless paper, we can begin to realise that potential," Mr Ted Brazington. chief executive of Wiggins Teape's carbonless paper operation, said.

Included in the £9m investment is installation of a second coating machine and the transfer of finishing equipment from Treforest.

Senior Engir ing its Phoenix Tubeman stainsteel and carbon tube making works at Darlington because volume and margins are uneconomic and the group no longer expects 2 sufficient recovery

The Darlington works will he the carbon steel tuhe production transferred to another subsidiary, Phoenix Steel Tube. at West Bromwich. It is expected employees. mainly at Darlington, will be made redundant.

Perkins, the diesel-engine makers, will have reduced its labour force by 20 per cent in 18 months with yesterday's announcement of a further 400 redundancies next week.

The Peterborough-based company, a subsidiary of Massey Ferguson, had originally asked for only 100 voluntary redundancies, but 600 workers

applied. Shell Chemicals UK, which lost £45m last year, is today expected to announce largelosses at its Carrington petrochemicals complex in Cheshire. Roughly half the site's 2.000 jobs are likely to go and some 270,000 tonnes of production capacity could be shut down. The main reasons for the cuts are massive overcapacity, poor demand and weak prices which have hit the whole of Western Europe'a petrochemical indus-

# Reinsurance market shown up by legal dispute, says judge

BY RAYMOND HUGHES, LAW COURTS CORRESPONDENT

A LENGTRY and complicated reconstrance merket in a very

Central Board, which excercises

visor; powers over the TSBs, no: in London yesterday, It is understood in have agreed

regulated by the Treasury, have

been discussing their future for

TSP movement.

TSE.

preferred course for the

which

certain redulatory and super-

thought the 20 or so insurance compones and brokers in other would have settled the case tracted and expensive litigation. resoide ::« d:-pures." he kaid.

legal dispute had shown up the party claims by Groupe Springs now 100 per cant owned by C. F. poor from a High Court judge. Heath, and Co. against two reverse of the traditional said presentable. Heath group companies and course of business, the sus-Mr dustice Lloyd said in the against several reconstruction Commercial Court that for this companies collectively des-

major relaturance class for rother than continued with pro-tracted and expensive litigation. from the activities of Mr Frank There must be cheaper and Elger, who carried on business manager in Toronto in the His comments came after a 1970s. (The other was Great Atlantic Insurance Company v.

ported the explanation was to se found in the sudden boom Termout they brighess which isso are completely world-yide hid ther more to enter the London market Brokers had been prack to see the potential.

preducer. Remember his portfolios had seemed like mentry. Betastre's had been willing to take a line with Intig. information being eiten or principles. In this he held that A peculiar companies to sound. The nuder said. Through Sprinks was hable to factor of both cases that Through two mixens have Commonwealth Insurance C under a 1975 quota share re- marine portfolio without know- strange Company (CIC) had Cic. ing the identity of the insurer appointed Mr Elger its manage

CIC's lightily by reinsurance. CIC contended that Groupe Sprinks was liable for 29.5 per cent of the tosses covered by the reinstrance freaty.

Mr Justice Lloyd said that although the losses had not been finally quantified, at November 30 1979 net tosse Mr Eiger had been a prolific on a 100 per cent basis had shood at ahout \$9m. Garana Sprink's main

defences were that there had not ben an enforceable contract under which it agreed to reinstare CIC: or, if there had been that it was made void by miterial misrepresentation and non-disclosure on the part of

there was no independent evi-dence that this had been material.

There might he cases where the materiality of the misrepresentation was so obvious that the court could make up its own mind without assistance. That, however, was not so in this case where the question of materiality was a matter of degree on which the court had oceded but not received expert

put it on inquiry. The truth was guilly of a piece of bad underwriting, he seid.

The judge rejected both against Groupe Sprinks the little idea of what relasurance convincing.

The judge rejected interest and indeed, before any insurer one agent with authority to defences. He said there had judge did not have to consider was about. Some had not party claims by Groupe Spanish had been found write marine insurance business on CIC's alternative claim against understood the meaning of now 100 per can owned by Groupe Spanish and the judge did not have to consider was about. Some had not not city alternative claim against understood the meaning of now 100 per can owned by Groupe Spanish and the judge did not have to consider was about. Some had not not city alternative claim against understood the meaning of now 100 per can owned by Groupe Spanish and the judge did not have to consider was about. Some had not not city alternative claim against understood the meaning of now 100 per can owned by Groupe Spanish and been found. breach of duty io falling to reinsurer). provide valid and effective re— The secon

insurance indemnity claim against the Heath pool had been doomed from the start, the judge said. Nowhere was there to be found any agreement between Groupe Sprinks and the pool companles.

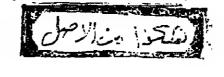
Nor had there been, he said, any breach of duty by C. E. On non-disclosure the judge Heath and Co. (Marine) or C. said Groune Sprinks had been E. Heath and Co (International) given sufficient information to as Groupe Sprinks's brokers. There were two disturbing himself. that Groupe Sprinks had been aspects about that part of the case, he said. The first was that

The second was the judge's distinct impression that the

Groupe Sprinks's third-party main concern of at least some of the people involved, once the scale of the losses had become apparent, had been to save their own skins.

In particular Mr John Bennett, general manager of Groupe Sprinks, had been prepared to rewrite history, sometimes consciously, in order to score a factical point or extricate himself from the hopeless position in which he had found

Nor did Mr Richard Shaw, then of Heath, emerge altoit appeared those at Heath gether unscathed. The indge On the basis of his finding handling the business had very found part of his evidence un-



BY NICK GARNETT, NORTHERN CORRESPONDENT

BRITISH GAS has concluded contracts and committed expenditure to a total of £300m so far as part of the estimated £1bn development costs for the Morecambe Bay gas eld.

The field is the third biggest gas field on the UK Continental Shelf. It is due to come on stream in 1984 in spite of some initial delays in getting the proiect under way.

UK-based companies have been awarded virtually all the contracts, the corporation said yesterday. It said it expected this would continue. Further orders and contracts would be placed with British companies provided that they are com-petitive in terms of technical capability, delivery and price." The placing of contracts for oil and gas development work has become a sensitive issue during

The corporation has also this year made two natural gas dis-coveries in the Irish Sea off Blackpool, south of the More-cambe field. BP has also been drilling in the same area and has a development well close to the Isleof Man.

would be using Heysham as the drilling and operational base for the Morecambe Bay field—

one already launched from the Clydebank yard of UIE Shipbulding and the second under



which contains an estimated 5 trillion (million million) cu ft of gas provided commercial negotiations were completed satisfactorily.

This is a blow to Merseyside, which had been pressing its case hard but which is geo-graphically much further away from the field. The corporation intends to continue its exploration drilling from Fleetwood and to locate the construction base at Barrow.

The biggest single orders are British Gas said yesterday it for two jack-up drilling rigs-would be using Heysham as the one already launched from the

construction at the same yard.
These will service three fixed drilling platforms. Contracts for the fabrication of the first two drilling platform jackets have gone to Howard Doris and McDermott in Scotland.

The corporation said further contracts, involving the central process platford, the accommodation platform and the third drilling platform, will be placed

For the onsbore terminal, Barrow's boroogh council granted detailed planning consent last week for the construction of the terminal's mechanical plant. British Gas said it will let contracts for this work later in the year.

Preliminary civil engineering work for the terminal has been carried out by Balfour Beatty and work on the main civil engineering and building con-tracts bave been started by Christiani and Neilsen (London).

The UK arm of the U.S. company McDermott International is completing the major section ing the field to the shoreline. The onshore pipeline taking the gas from Barrow to the national transmission system at Lupton is being laid by Murphy and is due for completion this year. Chief nuclear critic puts public safety first

inspector, has no donbts about whose side he is on in the nuclear debate.

He is on the side of the public -those who work in, visit or live near nuclear plants—just as much as factory and mines

As he sees it, the main task of the Nuclear Installations chief nuclear inspector and thus Inspectorate is "the objective a key witness at the Sizewell examination of safety." inquiry.

Opponents of nuclear projects Yesteresy, Mr Anthony pub-

aircraft to the design of gas-cooled nuclear reactors before joining the NIL expects that, in

in nuclear energy.

This forthright and articulate or at Sizewell, Suffolk, an set."
inquiry which could last a year. Mr Anthony concludes that,
He expects his professional on the basis of the CEGB's preand, in recent years, more widely for the Health and

knew all this last year

Safety Executive.

Government's, chief nuclear nuclear inspection, be was persuaded to apply for the post of chief nuclear inspector.

The more senior post of director of nuclear safety is to be abolished on the departure of Mr John Dunster from the HSE to become director of the National Radiological Protection Board in the next few days, so Mr Anthony will be Britain's

examination of safety."
Opponents of nuclear projects
should consider that much of hia budget is used for criticism of those projects, be says.

Mr Anthony, 56, an agrodynamicist who turned from aircraft to the design of care. the first of a series of perhaps five identical puclear stations.

the next year or so he will face a severe test of the strength of his inspectorate's concern is not custodian of the public interest custodian of the public interest with electricity capacity and how this should be provided, but with public safety, to ensure the installation's siting, In a foreword to the NII engineer is bracing himself for design, construction and operabuild a pressurised water reac- safety standards which we have

competence and integrity to be construction safety report there attacked fiercely. He expects is "no fundamental reason for public scrutiny of his competence as a cuatodian of public safety for nuclear engineering and in recent ways."

This means that no difficulty and in recent ways. has an far been identified which needs ba reparded as in-

bis

Nevertheless.

6 In the "inspectorate's view, a satisfactory design is achievable and can be developed to meet the safety objectives and give assurance that there will be a small chance of significant changes to the

David Fishlock reviews the Nuclear Installations Inspectorate's role in Sizewell B

design needing to be made for safety reasons once construction has started. Only when the inspectorate is satisfied that this is the case will a licence be granted.

report contains enough caveats to keep critics of the project very busy for the next few months. It identifies at least 16 "shortcomings" in the safety case, points on which he still needs to be satisfied. They range from the detailed design and testing of the 435 ton ateel reactor pressure vessel and primary coolant circuit, to the general design basis of a new and untried electronic protec-

tion system. The report points out that its aim has been to lay bare the shortcomings in a safety case constructed at an early stage in the project.

Safety assessment is the responsibility for the nuclear inapectors during "a continuoua process from the design inception, through detailed design.

commissioning."

the design inception atage of might swell to such an extent this 50-plus year cycle, as it that coolant could no longer stood on March 31. Sir Walter circulate round them. Marshall, CEGB chairman, said yesterday that, when the CEGP resulting from an earthquake 🕥 East Anglia posed the biggeat

Of the long list of shortcomings, the report identifies five where the position is not yet satisfactory: Hazards arising from fire, air

craft crash and earthquakes. An improved case needs to be made or design changes may be re-• Fuel clad ballooning. An

acceptable strategy for developing a safety case has been presented but the case itself is still awaited.

 Steam generator tube in-tegrity. The inspectorate stilt has reservations about the CEGB case and the effect of many tube failures under fault conditions. · Reactor protection system.

More justification of a computer-based design, novel to nuclear situations, is required. Safety analysis assessment will require "more time and more information."

Of the five. Sir Walter believes the CEGB case is most at risk sofety report. SO: £5.50.

operation and, ultimately, de- menon predicted by the UK Atomic Energy Authority. In The report is examining only an accident, the fuel pins

could lead the nuclear inspector nad satisfied the chtef nuclear to downrale the reactor, lesseninspector on all design points, ing the PWR's 72 per cent cost the risks would have been re- advantage claimed over the duced to a level where damage advanced gas-cooled reactor design. "But I'm betting my reputation that we won't have to do that. Sir Walter said yes-

terday. Mr Anthony is reasonably sure that all five problem areas can be sorted out, because the inspectors themselves can see waya of resolving them. "But while we think we can see soluions, we think it is not our business to put them forward, he says.

Thus, the nuclear inspectors reach the conclusion that a sailsfactory design for a PWR "18 achievable and can he developed so as to meet the safety obicetives and give assurance that there will be a small chance of significant changes to the design needing to he made for safety reasons once construction has started." But they stress that they with grant Sizewell B a construction licence only when they are satisfied.

Sizencell B. a review by HM Nuclear Installation Inspec-torate of the pre-construction

### Steel output fell in June as imports rose

UK STEEL production dropped sharply in June, reflecting the . decline in demand and rise in imports which bave been developing since early spring. Average weekly production of 280,800 tonnes in June was 12.5 per cent lower than in May, and 14.7 per cent lower than in June,

Production dropped most in the Yorkshire and Humberside region, where the average weekly rate of 79,200 tonnes in June was 19 per cent lower than in May and 30 per cent lower

than in June, 1981. A number of works in the Sheffield area, which use electric are furnaces, extended the May Bank Holiday through the first week of June because of lack

Production in the northern region, consisting mainly of the British Steel Corporation's Teesside works, was down by 11 per cent to 47,400 tonnes in May, compared to June. Production in Wales was 3 per cent lower in June than in May, but that was due to furnace problems at one BSC works, rather than to a fall in demand for the

output of the big strip mills.

The latest import statistics, for April, show a 48 per cent increase from the levels of April 1981, foreign suppliers baving taken increasing advantage. tage of the higher prices in the UK market this year.

UK STEEL OUTPUT 1980-1982 (weekly average thousand tonnes)

• • • • • • • • • • • • • • • • • • • •	
1980	
fune .	327.9
July :	282.3
August	245.6
. September	207.8
October_	227.6
November.	258.2
December	222.9
1981	
january	234.5
February	317.2
March	308.3
April .	307.8
May	287.3
kine ·	329.1
July	285.7
August	235.6
September	296.7
October	337.6
November	343.0
December	263.7
1982	
lanuary	283.3
Enhance	340.8
February	378.2
March	314.4
April	
May	320.8
TUTTA	280.8

ducers is the sharp increase in imports from outside the EEC. In April, these were 119,206 Imports last year were tonnes, 140 per cent above abnormally depressed by low April 1981 levels and about the prices, but the latest figures same as the average 1979 indicate a substantial 17 per monthly level. tonnes, 140 per cent above April 1981 levels and about the

### **Euroflot loses appeal for** release of arrested ship

BY RAYMOND HUGHES, LAW COURTS CORRESPONDENT

AN ATTEMPT to free a Spanish them to a port to be loaded cargo ship which was arrested at Felixstowe last Saturday has Section 20(2)(h) of the 1981 at Felixstowe last Saturday has failed in the Admiralty Court. The 3,908 grt Sonia S. owned

by Eurofiot, of Santander, was arrested as security for claims against Euroflot by two Swiss companies, Catu Containers and SLC, for \$333.513 (£193.500) and \$120,675 respectively.

Euroflot appealed against the arrest order, made by the Admiralty Registrar, on the grounds that the claims were not within the Admiralty Court's jurisdiction.

Mr Justice Sheen said the claims were virtually identical and involved charges due from Euroflot in respect of a large number of containers leased from the Swiss companies.

Euroflot\_ran a liner service. principally between Europe and South America, it leased conlainers and sent them to its customers, who packed their that the case involved an imown goods into them and sent portant point of law.

Supreme Court Act provided that "any claim arising out of any agreement relating to the carriage of goods in a ship" came within the jurisdiction of

the Admiralty Court. Euroflot contended that the container companies claims were for money due under leasing agreements and did not re-late to the carriage of goods in

But Mr Justice Sheen rejected that contention. He said the claims were made by the owners of containers against a ship-owner, to whom containers were leased so that the shipowner could provide its customers with a service that included the carriage of the customers' goods in Euroflot sbipa.

Euroflot's appeal was dis missed with costs. The company was given leave to go to the Court of Appeal on the grounds

## Breakthrough claimed in letter bomb detection

BY JAMES MCDONALD

MAIL screening device, claimed to be a breakthrough in letter-bomb detection, haa been launched by Securicor. The company believes that the desk-top machine's price of £915 will make it attractive to a considerable business

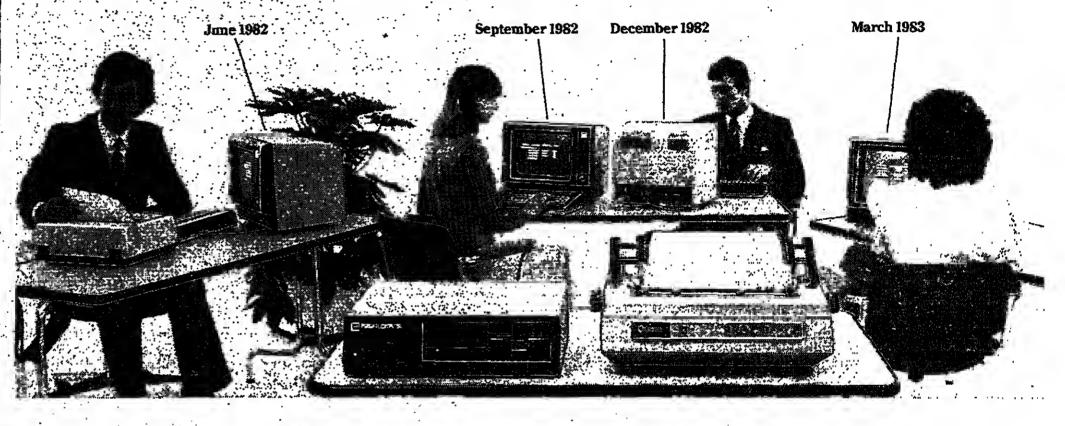
domestic market. The electromagnetic device is made by Scanner Electronics, a British company. The most important feature of the machine, says Securicor, is its ability to recognise and ignore

harmless metal objects, London Securicor said in yesterday that false alarms from these harmless objects had tended to give detectors alarms of this type on image of being there of a nuisance than a help. migoreted the company.

operators of other machines might respond to a high false alarm rate by setting the sensi-tivity controls to a level where bombs might pass undetected Securicor's device has no sensitivity control and a very low false-alarm rate, says the com-

It is also designed to be proof against power surge. Securicor claims that the act nf switching on a kettle or electric typewriter in the aame room, or even an adjoining room, has been enough to trigger off alarms on other

machines. The mains or battery-operated machine can deal with 10.000 or more letters an hour, and will take parcels nearly 16 in



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foreign-built vessel.

The order seems virtually

certain to be given to a Japanese

or a South Korean shipyard. A

likely to go to the Far East

subsidy enables it to be switched

bend the rules on shipbuilding

to British Shipbuilders.

Development.

# Howe rejects CBI's reflation call

BY JOHN HUNT, PARLIAMENTARY CORRESPONDENT

THE CALL from Sir Terenee Beckett, director-general of the Confederation of British Industry, for new Government measures to stimulate demand was rejected in the Commons yesterday by Sir Geoffrey Howe, Chancellor of the Exchequer, and Mr Leon Brittan, Chief Secretary to the Treasury.

Mr Brittan told the House: "You will not reduce unemployment io any substantial, serious or lasting sense by reflation of

"What you will do by reflation of demand is provide a sbort-term boost, increase inflation, and create a lack of confidence that will lead to higher levels of unemployment than we would otherwise have." A similar message was given by Sir Geoffrey in a more subdued fashion.

Mr Geoffrey Lofthouse (Lab, Pontefract and Castleford) asked the Chancellor if he was aware that the Cambridge Economic Policy Group had forecast that by 1990 there would he 4.5m unemployed. Sir Terence Beckett, in his meeting with Tory hackbenchers on Tuesday, bad given warning of the possibility of 31m unemployed by the end of this year. Mr Lofthouse suggested that this meant the Chancellor's economic policies had failed. and called on him to resign if Sir Terence's forecast came

Health body

THE HEALTH and Safety Com-

mission's techniques of com-munication and persuasion "lack professionalism, flair and

vigour with the result that lay-

men find it difficult to know

what they are doing," a Com-

mons select committee said yes-

which beld an inquiry into the

achievements of the commis-

sion since it was suggested 10

years ago, said it considered it

had a responsibility to ensure

that informed discussion and

debate took place about health

commission appears to keep an

unjustifiably low profile, which leads to a lack of public aware-

The committee added: "A greater understanding could

arouse more pressure for im-

provements, and his, in turn,

could for example attract more

resources from Government and

BY OUR PARLIAMENTARY STAFF

fisheries policy for the Euro-

'AGREEMENT ON a common be resolved.

ness of potential hazards."

"At present, however, the

and safety.

The Employment Committee,

'baffles

public'

By Lisa Wood



Leon Brittan: a boost . . . leading to lack of confidence

The Chancellor said unemployment in Britain had been rising steadily for a very large number of years, but was now rising faster in other countries.

Sir Geoffrey said the answer to these problems was to be found in the Government's determination to fight inflation, to correct the balance of the economy, to restore competitiveness and the capacity of the cconomy by improved output.

Emphasising his words, he added that it could not be done in any other way and implied rejection of Sir Terence's anding.

in Tribune yesterday.

trade union delegates.

The newspaper said the right

was trying to flood Mr Benn's

management committee with

object was to influence the out-

boundary changes come into

effect. These were, at one time

expected to lead to a contest between Mr Benn and Mr

Micbael Cocks, Labour's Chief

Whip, for the one safe Labour

The Tribune allegations attri-

bute a degree of organisational

competence to the right more

normally associated with the left. It is clearly designed to embarrass the right by drawing

attention to the activities of cer-

tain moderate unions. And, in

particular, to the way that right-

wing trade unionists are being

encouraged to register as dele-gates merely to vote at a few key

Fisheries accord 'long way off'

Mr Walker underlined his

pean Community is still a long close and continuing consulta- opened the debate for Labour,

way off, Mr Peter Walker, tion with the fishing industry called on the Prime Minister to

Minister of Agriculture and and assured MPs that, if agree- show the same boldness in tak-

Fisheries indicated in the Com- ment was not reached on a ing on the EEC over adequate

mons last night. In a frank fisheries policy, it would not be safeguards for Britain's fishing

next week, he said he could not that, unless agreement was re-affirm its commitment to a be optimistic in any way.

that, unless agreement was re-affirm its commitment to a reached by December 31, fisher
12-mile exclusive limit around

access to fishing grounds, ket countries would be entitled ference on the 12 to 50 mile quotas, and stocks, still had to 10 fish right up to Britain's zone.

Fundamental issues, including men from all the Common Mar-the coast and to dominant pre-

assessment of the prospects for for want of trying.

industry as ahe had demothe next round of negotiations

Mr Bruce Millan, Labour's strated over the Falklands.

Moderates last night claimed

meetings a year,

seat.

Mr John Golding, chairman to be delighted by the way the

due to take place in Brussels shadow Scottish Secretary, said

are an assiduous of the far left in Bristol.

team, but they are still looking Mr John Goldiog Labour MP by Rig inward." Mr John Goldiog Labour MP by Rig inward."

Right accused of bid to

BY ELINOR GOODMAN, POLITICAL CORRESPONDENT

of Bristol were published to Bristol was that htere was no

come of selection conferences tional supporters was for due next year when constituency moderates to become delegates

tellectuals."

puter Staff.

part

beaches.

demands earlier in the week. Answering questions from both sides of the House on the state of the economy. Sir Geoffrey said: "The turning Geoffrey said: "The turning of leading cyclical indicators point was reached in the spring and most of the recent indeof last year. A gradual recovery bas begun and is expected to

Ooe of the Tory "Wets," Mr Patrick Cormack (Staffordshire South West) caustically asked bow be saw the economy developing in the West Midlands during the coming year.

The Chancellor said that, if the economy as a whole cootinued to improve—as the Government thought likely and if both sides of industry improved their performance, there was no reason why the West Midlands should not share in that improvement.

Mr Geoffrey Robinson (Lab. Coventry North West) asked him, tersely, whether output would be higher at the eod of his term of office than it was at the beginning. There were jeers from the

Labour benches when the Chancellor replied: "It is not possible for anyone in any circumatances to give absolute assurances of that kind."

need for ordinay working people to get involved in the "theore-

tical wrangles of middle class in-

the Labour Party to its tradi-

to their local party and then

turn np to vote at key meetings.

copy of a note of a private meet-ing held in Bristol last year by Mr Golding and Mr Roger

Godsiff, political officer of the

Association of Professional,

Executive, Clerical and Com-

changes, the number of seats in Bristol comes down from five

others, including that held by Mr Cocks. Under the Commis-

sion's latest proposals, how-

ever. Mr Benn would bave a

Under proposed boundary

four. Mr Benn's constituency

divided among . several

Right-wing trade union

Mr Norman Buchan, who

industry as ahe had demon-

He pressed the Government to

The article was hased on a

All that was needed to return

Mr Eric Deakins (Lab Walthamstow) asked what indicators now led him to believe that the recession was

Chancellor explained that his helief in a gradual recovery was supported by the Central Statistical Office index pendent forecasts.

Industrial production in the three months to May was about 3 per cent higher than in the spring of last year. "The pros-pect is for further gradual recovery," he maintained. There was a biting question

from another "Wet." Geoffrey Rippon (Hexham), who asked whether the record numdue to high interest rates-led the Chancellor to believe that the recession was ending. Sir Geoffrey pointed out that

record bankruptoies were not confined to Britain. But he agreed on the importance of low interest rates and recalled that they were now 4 per cent below the level of last year.

For the Opposition front bench, Mr Jack Straw, a Labour Treasury spokesman, said that manufacturing production was only now returning to the level of July last year, when the Chancellor had said that the recession was ending.

In reply, Sir Geoffrey said that economic growth in Britain. as in other countries, was still "alow and hesitant." Economic growth in some European countries was static or negative.

# Jimmy Hill denounced DETAILS OF a plan by Labour was named in the article as one right wingers to undermine Mr the right's main organisers. Tony Beon in his constituency and the message be bad taken

Jimmy Hill, the football commentator, at the centre of the row over the team due to play in Sonth Africa, was hranded an " overpald BBC hack" by a Labour MP in the Commons yesterday. He was also accused of "conspiring" with a Tory MP to bolster the standing of the South African

The attack on Mr Hill, one of the organisers of the con-troversial tour, was made during Question Time by Mr Dennis Canavan (Lab. West Stirlingshire), who demanded a statement on the affair from Mr Neil Macfarlaue, the Sports Minister.

### strong claim to the fairly safe Labour seat of Bristol, Kings-Minister of the Employment Committee article had focussed attention article claims on the tactics that were being that the attempt "to destabilise" that the attempt "to destabilise" that the attempt "to destabilise" the Labour Party lo Bristol is The Tribune article claims attacked as

A MINISTER was accused in the Commons yesterday of being sexist as he faced calls for the abolition of valueadded tax on sanitary towels. Uproar broke out when Mr Bruce-Gardyne, Economie Secretary to the Treasury, said he saw no logical reason for singling out one particular hygiene product for special treatment.

He added: "In my experience, most women have a tendency to use soap."
The issue had been raised at Question Time by Miss Joan Lestor (Lab, Eton and Slough).

Mr Doug Hoyle (Lab, Warrington) told Mr Bruce-Gar-dyne: "That is a sexist remark and you should apologise."

# undermine Benn in Bristol football tour

Mr Canavan said Mr Hill and Mr John Carlisle (Con. Luton West), who has belped promote the tonr, seemed to be involved "in some kind of conspiracy to send a football team to South Africa

# dated." sba sald.

of the Social Democratic Pa was persistently heckled by leftundertakings by the Govern-ment that the railway system had a secure long-term future. The Prime Minister recalled

that the report by Lord McCarthy had underlined that without progress on flexible rostering the outlook for the railways and railwaymen would be "bleak."

Government had authorized an external financial kimit for BR of £900m this year and £930m last year, and that £800m from this source had been used for operating grants.

## plea to striking railmen THE PRIME MINISTER yes-

Thatcher

terday appealed to striking train drivers to avert the closure of British Rail at midnight on Tuesday by returning to work on an individual basis. In hard-hitting Question Time exchanges in the Comber of bankruptcies in the first mons, she rejected further six months of this year—largely demands by Mr Michael Foot,

the Opposition Leader, for Government intervention secure a settlement of the dispute.

. Mrs Thatcher also urged him, unsuccessfully, to join with ber in appealing to the drivers to accept the flexible rosters devised by the British Rail board.

To Government cheers, she declared: "If Aslef will not recommend a return to work, it is up to the individual mem-BR board's offer."

Mrs Thatcher's insistence that there would he no need to close the railway system if the drivers, like their colleagues in the National Union of Railwaymen, realised that it was in their own interests to accept flexible rostering, brought an angry shout of: "You don't want a settlement," from Mr Eric Heffer of the Opposition

front bench.

Mr Foot protested that it would he an outrage, if in the face of such a major crisis as s shutdown in the railwaya, Ministers made no attempt to intervene.

The Prime Minister retorted: "I think It is an outrage that you won't appeal to the train drivers to return to work." Mr Walter Johnson (Lab. Derby South) who is sponsored by the Transport Salaried Staff Association, angered some of his back bench colleagues hy stating that the Aslef strike could not possibly be justi-

Nevertheless, he said, would be quite wrong to show the railway network to close because of the damage to the job prospects of those not involved in the dispute.

Mr Johnson's suggestion that the Government should therefore change tack by aetting up an inquiry on the understand-ing that Aslef would call off the strike was rapidly rejected by the Prime Minister.

While agreeing that the dispute was very damaging to all who worked on the radways and to other industries as well, the. Prime Minister repeated that a return to work by the engine drivers would keep the railways

There is no future for the railways unless working practices agreed in 1919 were up-

Mr Roy Jenkins, the leader about that yesterday at Manton from the union led wing Labour MPs when be argued that the pressure on Asief to accept flexible rostering and the warnings of the dire consequences if the strike continned should be coupled with

She stressed, too. that the

### if ship order goes abroad BY BRIAN GROOM, LABOUR STAFF BRITAIN'S 24,000 dockers will £33m and Japan's £35m. Yesterday's blacking decision was taken unanimously by the black all Cunard ships if the Attantic Conveyor, aunk by an was taken unanimously by the Exocet missile during the Falk. 22 members of the Traosport lands conflict, is replaced by a

Dockers to black Cunard

national docks and waterwaya

and the high level of UK decision is likely within a week. Lord Matthews, Cunard chair-man, has said the contract is uoemployment. The motion was proposed by dockers at Southampton, where French-are likely to be the blacking would have its replaced in damestic shipyards. unless a very large Government

Cunard has not given up hope of this, but the Government service on August 14.

Mr John Connolly, national docks secretary of the TGWU. apparently believes it cannot said: "I bave no doubt that the action will be aupported in ports

British Shipbuilders feels quoted a price of about £45m.

and General Workers' Union's

committee. yards in view of the fact that being replaced for economic Cupard team is due to return yards in view of the fact that being replaced for economic from the Far East today, and a British lives were lost on it, reasons—a decision taken before from the Far East today, and a British lives were lost on it, reasons—a decision taken before

most noticeable impact. It could balt the passenger liner

subsidies as agreed by the EEC and the Organisation for Economic Co-operation and around the country."

Also likely to be blt are fiva

that few other governments have such scruples. It has ports often Sheerness, and four quoted a price of about £45m. Middle Eastern vessels which compared with South Korea's sail from Felixstowe.

Cunard said it was saddened by the dockers' decision, but it was bound by legal responsibilities to sbarebolders to maka lts decisions un economic grounds.

The Atlantic Conveyor was one of five ships in the five-The dockers' leaders said the company Atlantic Container ship should be replaced in UK Lines consortium which are

the Falklands crisis. It is understood that the other four ships-three Swedish, one The docks committee heard yesterday that employers in QE2, which is being refitted for eight ports had refused TGWU civilian use and will return to requests to seek membership of the oational dock labour

> The dockers called off a national strike threat in May after the Government offered to consider specific and detailed proposals for the inclusion of particular non-scheme ports. The TGWU has begun approach employers, seeking joint agreement on proposals.

# Mine union to shift headquarters

BY JOHN LLOYD, LABOUR EDITOR

THE NATIONAL Union of Mineworkers is to move its headquarters office to Sheffield within the next two years, at a cost of between

£2m-£3m. In keeping with a pledge by Mr Arthur Scargill, the president, that the employment legislation would be ignored, the union will specify that any contractor employed in construction of the beadquarters must use

union labour. This will flout provision in the Employment Bill, now close to becoming law, that union-labour only contracts are unlawful. The provisions of this measure were tightened earlier this week.

The NUM executive's decision yesterday followed a vote in favour of the principle of a move-out of London

taken at the mineworkers' conference last week. The council has said it will give o grant to the union of £1,000 for each new job it hrings to the area. However, Mr Scargill has told the 33 staff at the present head-quarters in Euston Road, that their jobs will be available in Sheffield.

It is understood that the favoured site is in Cambridge Street, close to the City Centre, now occupied by a listed buildin gused as the Sheffield office of the South Yorkshire County Council. However, Mr John Benington, chief officer of the employment department; said several sites, many of them now being used as car parks, were being considered.

The NUM executive approved a wage claim, conforming to last week's con ference resolution calling for £27.20, or 31 per ecut, increase for surface workers. and a similar flat rate increase for other workers. The claim, presented to the

Coal Board yesterday, will also contain a demand for a four-day week and retirement at 55. A separate claim for protection of earnings will he submitted later this month. • The executive bas sought a meeting with the NCB over the future of Britannia Colliery, in South Wales, where a dispute has arisen between the board and the area NUM over development work to a new face. The meeting will also discuss the plan tn cease production at Snowdown Colliery, over which strike action has been

# Quietly ran the coal trains

A' STEADY stream of coal week," said one of the miners trains have been quietly shift- in the office. One of his coling loads from pits in South Yorkshire and North Nottingbamshire to the line of power stations along the River Trent for the past ten days.

The miners who have been loading the strike-breaking

trains have been clearly defying a National Union of Mine-workers conference decision.

Nobody seemed very worried power base of South Yorksbire. to strike-breaking "We didn't get any directives in some areas, David from the South Yorkshire area NUM until this morning," said one miner at Manton. Now that the directives have

gone out and the NUM officials are hack from their Inverness conference, the trickle of coal trains—concentrated in the South Yorkshire/North Nottingbamshire area will probably grind to a halt. But no one at Manton was hiding the fact that last week 10,000 tons of coal was moved from the pit to Cottam power station on the Trent.
That's about half the weekly ontput of the colliery-one of the larger ones in the S. Yorks area employing 1,400 miners.

Looking out from one of the pithead offices at Manton yes-terday, I could see one of the 34-wagon "merry-go-round" locos piled high with 1,000 tons of coal. The automatic loading . and dumping train was ready to be driven away by one of the NUR drivers from the

Worksop depot.
"We'll probably only have worried by a total about 3,000 tons moved this coal movement.

in the office. One of his col-leagues added that Shire Oaks -another South Yorks plt-last week moved 19,000 tons into the 2.000-megawatt West That is still only a tiny fraction of the area's normal to conserve stocks.

Lack of directives Goodhart reports

weekly load of 500 trains, and 500,000 tons, and the more militant pits around Doncaster and Barnsley are not moving a thing.

in the region's fringe has little significance. The miners who have been loading coal don't see themselves as deliberately strike-breaking—although some argue that if Aslef can't be bothered to mount plekets then they should keep loading the

NUR drivers.

A British Rail official said that about 20 per cent of the normal coal trains were operahamshire last week—but the talk of some sourn recommendations are not pits having to "requisition" cricket pitches if the strike con-

As Mr Derrick Wells, the manager of West Burton station, said: "We've got stocks here to last over four months." The Central Electricity Generating Board says the picture is the same countrywide, although there are plans to use more oil

Over halt the coal stocks of 45m tonnes are still at pitheads and that could start to pose problems for the National Coal Board. The NCB estimates that over 500,000 tonnes of the 2.5m tonnes weekly output was moved last week—but as stocks mount the extra cost for the board could reach £6m a week.
About 700,000 tonnes a week

normally moved by road and ship and most of that should continue to get through, accord-

ing to the Coal Board.
At Manton colliery—which relies exclusively on trains—a Apart from causing some embarrassment to Mr Jackie space for at least 750,000 tonnes they would have no problems. Secretary at Manton—everyone accepts that this "rebellion" very tight and they will either they would be space is very tight and they will either they would be space is the state of the space is the space. face short-time working or high reots for extra storage room.

In Yorkshire—where they estimate they have an average

of six to eight weeks space— and South Wales, the NCB is negotiating with local authorities for extra space.
Pit holidays over the next
three weeks will provide some respite—with output falling hy over half. But at Manton Col-liery yesterday there was dark

# Restoring Parliament's grip on spending A STEP towards reasserting its spending programmes being related select committees of the Parliament's historic function of scrutinising and controlling public expenditure is likely to Similarly, the main opposition changes in particular estimates

occur on Monday. The Commons approve proposals to after its procedures to allow MPs the opportunity to examine, and urge changes in, the detailed estimates of public expenditure.

The current, highly complicated, procedures merely maintain the myth of parliamentary control. Mr Joel Barnett, chairman of the Public Accounts Committee, has said: "The present position, wherehy huge sums of money are granted to the Government virtually without debate, is quite intolcrable in a democratically elected parliament." The detailed scrutiny of par-

ticular estimates has been largely abandoned. There are theoretically 32 days available Minister. in each parliamentary session in which the Government's demand for Supply, that is expenditure, can be discussed. But three of these days are for private members and eight or nine of the rest are conventionally used to discuss, among other topics, the armed forces. Scottish affairs and the European Community.

iog 20 or 21 days are almost aside each session for the invariably general policy issues detailed consideration of the —for example, fisheries yestermain and supplementary esti-day, and regional and industrial mates. On these days it will be policy on Wednesday. There are possible for the reduction, but place of the present supply virtually no debates about par- not the increase, in particular

This system has suited the Government in that it has run mates will be referred to the for debate. almost no risk of the details of dozen or so departmentally That prop

party has regularly had a num-ber of days when it can choose tions from individual backthe debate.

Back beochers and financial either the liaison committee of specialists among MPs bave, select committee chairmen (as

Peter Riddell, our Political Editor, explains how MPs hope to bring back reality to the myth of parliamentary control over public expenditure.

cedure committee under the Worthing and a former Treasury House.

of the proposals being put forward by Mr John Biffen, Leader of the Commons, next Monday following a debate earlier this about surrendering parliamenyear. But members of the committee have several detailed

The key proposal is that a The subjects for the remain-number of days should be set estimates covering items to be proposed, debated

and voted. The intention is that the esti-

however, become increasingly proposed by Mr Biffen) or by a dissatisfied. The widespread special estimates husiness com-shortcomings of the present mittee (as proposed by Mr system were aired in a report Higgins and members of the last summer from a special pro- procedure committee). This committee will, in turn, recomchairmanship of Mr Terence mend which estimates are 10 be Higgins, the Tory MP for considered on the floor of the

The procedure committee
This report forms the beart report last year originally proposed eight days for this examination of estimates. The Government, always anxious tary time, bas suggested three days. The Commons will have to decide on Monday between this and a compromise pro-posal of five days suggested by

Mr Higgins and his colleagues. Apart from a simplification of some other procedures, the other main proposal is that, in days, there should be 19 opposition days each session in which the Leader of the Opposition can pick the motion

That proposal has, however,

view of the breakaway by the Social Democrats. Instead of all but a dozen MPs coming from the two main parties, there are now 58 MPs from other parties. In the past some half-days have been granted, almost as a grace and favour, by the Leader of the Opposition the Liberals or to the Nationalists. But this is not a formal requirement, which much annoya the SDP. Consequently, Mr John Roper,

the SDP whip and other mem-bers of smaller parties have tahled an amendment requiring the allocation of opposi-tion days to take account of the relative size of parties. These proposals are only a

start. The procedure committee was re-formed last wioter for the rest of this parliament and is now considering whether it will be possible to change Commons procedures to have a provisional "Green" Budget in the late autumn combining expenditure and taxation proposals. The committee bas also been

looking at how long-term capital projects are approved, at the large amounts of expenditure which by-pass the Commons and at the possible control of overnment borrowing hy Parliament. The latter topic has become especially timely in view of the proposals in tha Finance Bill to give the Treasury additional powers to borrow through the National Loans Fund. The current inquiry is unlikely to be comleted until next spring. The fate of these proposals,



Terence Higgins: report at the heart of the proposals

like all parliamentary reforms will depend on how active and assiduous MPs are in using the new estimates day: Experience of the select committees set up three years ago bas been mixed. Some sceptics wonder bow many of these committees—apart probably from the Treasury and Civil Service Committee will be prepared to divert time, and resources, from consideration of policy issues to the more laborious scrutiny of estimates.

But, thanks to the activity of a few prominent reformers, the opportunity has now been created for parliament to have, at least, some influence, if not control, over public expendi-Stuart Crowburst, the union's

## Right gains writ to re-run Civil Service union poll

BY PHILIP BASSETT, LABOUR CORRESPONDENT RIGHT-WINGERS in the Civil returning officer and chartered

and Public Services Association yesterday obtained a High Court writ seeking a re-run of the last elections for the union's national executive committee in which the left scored a spectacular landslide victory. The writ, obtained by Mr

Charlie Elliott and Mr Mike Butcher, two leading CPSA moderates, will be served this morning against the union itself. Mr Kevin Roddy, the union's president, who is a supporter of Labour's Militant Tendency, and Mr. Malcolm Rennard, another leading CPSA left-winger. It is expected that the case will proceed to a hearing in the

ing, at which lawyers for Mr Elliott and Mr Butcher will seek an injunction overturning the elections and calling for a new round of balloting. The legal moves follow mounting allegations by CPSA right-wingers of irregularities in the voting during the election,

High Court on Tuesday morn-

including a number of branches. not receiving ballot papers. ... The CPSA ordered an internal investigation into the allega-tions, to be carried out by Mr

accountant.

However, Mr Crownurst's report, delivered to the union this week, concluded that there was no marked evidence of any irregularities, other than those normally introduced by the par-

out that Mr. Crowhurst's report was broadly supporting the status quo, a move to the courts was probably inevitable: The left in the disputed elec-tions won the presidency of the union from a right-winger, and secured 23 seats on the national executive to three held by the

ticular system of voting used

Once the right-wingers found

of the previous year's right-wing majority of 16-10. Mr Elliott lost the presidency to Mr Roddy, by 21,515 votes to 23,210. Despite this vote, Mr Elliott failed to secure a place on the executive because of union rules governing the number of places for staff from

right—a complete turnaround

individual Government depart-The CPSA has a considerable history both of litigation hetween its deeply-divided political groupings and upheavals in its elections.

### Theatre staff lose appeal against sacking

By Raymond Hughes, Law Courts Correspondent

THIRTY former employees of the National Theatre who were sacked in 1979 after going on an unofficial strike cannot claim for unfair dismissal, the Court of Appeal ruled yesterday.

Lord Denning said that the men, who had been told hy

their union, the National Association of Theatrical Television and Kine Employees, to work normally, had caused the cancellation of eight performances and

cost the theatre £20,000. After being dismissed, the management offered to reengage them—but on terms that if they offended again they might be sacked.

The men objected to that condition and rejected the offer. They complained to an industrial tribunal, which held that it had no jurisdiction to hear their claims of being unfairly dismissed

Lord Denning said that the crucial question was whether the 30 had been offered re-engagement in the jobs they had held before. If so they could not claim for unfair

### BBC 1

6.40 am Open University (uhf only). 10.55. Golf: The Open from Royal Trong. 1.00 pm News After Noon, 1.27 Regional News for England (except London) London and SE: Financial Report. 1.30 Bod. 1.45 Gnif. 4.18 Regioned News for England (except London). 4.20 Play School 4.45 Jigsaw. 5.10 Play-"The Rose of Ice," by John Challen.

- 5.40 Eveoing News.
- 6.00 Regional News Magazine. 6.25 Nationwide.
- 6.50 To Free an Eagle: The monkey-eating eagle the Philippines.
- 7.40 It Ain't Half Hot Mum.
- 8.10 It's A Knockout, Teams from Scunthorpe, Clee-thorpes and Rotherham compete for a place in the Portuguese Luternational
- 9.80 News.
- 9.25 Cagney and Lacey.
- 10.15 West Country Tales.
- he Late Film: Husbands,' starting Ben Film: Gazzara, Peter Falk and

All IBA regions as London except at the following times:

9.30 cm Cartoon Time. 9.40 The Amezing Years of Chema. 10.05 Tarzan. 10.55 Portasti of a Villege. 11.20 Alphabet The Story of Writing. 11.50 Wattoo. Wattoo. 1.20 pm Angira Naws. 2.45 ffriday Film Matthes. 4.20 Rezzmatszz. 6.00 About Angira. 7.30 The Fall Guy. 9.00 Or the Line. 10.30 Members Only. 11.00 Friday Late Film: "A Krifing Affak." 12.45 cm Many, Tongues.

0.55 am The Wild, Wild World of Animals. 10.20 Gardening Time. 10.45 Fanglace. 17.10 History of the Grand Prix. 11.35 Contrasts. 1.20 pm Centrel News. 2.45 Suramer. Attendoor Coreedy: "The Big Job." 4.20 Rszencon Coreedy: "The Big Job." 4.20 Rszencon Est Guy. 9.00 On the Line. 10.30 Soep. 17.00 Contral News. 7.30 The Police Story Movie.

GRAMPIAN

9.30 sto First Thing: 9.35 Sesame Streat, 10.35 Cah is Mecsonn, 11,00 Thunderbards, 11.55 The Adventures of Perstey, 1.20 pm North News. 2.45 Fridey Mathree: "Lifs is e Carcus." 4.20 Razzmetezz, 6.00 Summer at Six.

RADIO 1

(S) Storeo broadcast (when broadcast on vht)
5.00 am As Radio 2. 7.00 Steve Wright, 9.00 Simon 9ates, 11.00 Redio One Roadchow from Northem Ireland, 12.30 pm Newsbeat, 12.46 Oave Lee Travis, 2.00 Paul 9umett, 5.30 Nawabeat, 5.46 Roundtable, 7.00 Andy Peeblas, 10.00 The Friday, Rock Show ISI.

RADIO 2

S.00 am Ray Moore (S). 7.30 Terry Wooan (S). 10.00 Jimmy Young (S). 12.00 Gloria Hunnitord (S). 2.00 pm Ed Stewart (S). 4.00 Oavid Hamihon (S). 5.45 News; Sport, S.00 John Ounn (S). 8.03 Fildey Night 1s Music Night (S). 10.00 The Grumbleweeds. 10.30

ANGLIA .

### TELEVISION

### Tonight's Choice

The timing of Gardener's World (7.35 BBC 2) is distressingly close to the weekend, leaving the conscience pricking still on Saturday morning when the grass may be greener, but also considerably longer. This week, apart from vegetables and perennials, the programme takes a look at the wild flowers which we are all oow trying to tame into suburban submission.

Friday is always much better on Radio (take the earphones into the garden perhaps?) anyway. Tonight's Any Questions? team is a bit on the weak side even if David Owen provides some good Man of the People sense. But Pick of the Week, International Assignment, Letter from America, Kaleidoscop The World Tonight, Week Ending and the last episode of Mother and Son, the current Book at Bedtime, are all reasons for staying with Radio 4 throughout.

That is, of course, to ignore the First Night of the Proms (Radio 3, 7.30), but my dismissal of an evening of Berlioz is purely subjective. Night owls would find at worthwhile switching to the Great

Depression which can be seen here and there on ITV (11.30). A repeat perhaps, but a chilling reminder of the knife edge. along which we all continue to walk.

ARTHUR SANDLES

8.10 Whatever Happened to

### BBC 2

RADIO

6.40 am Open University, 10.30 Play School. 4.20 pm Golf. The Open from Royal Troon.

5.35 Diffrent Strokes, 7.30 The FeM Guy, 9.00 On the Line, 10.30 Fridey Late Night Frint "Triple Echo." 12.16 am North Headines.

GRANADA

0.30 am An Oulline History of Europe. 9.50 Stingray, 10.15 Last of the Wise. 10.35 The Beachcombers. 11.00 Secame Europe. 1.20 pm Granada Reports. 2.45 Fridey Matines: "Ssbotage." 6.00 Jengles. 6.30 Granada Reports. 7.30 The Fall Guy. 9.00 On The Line. 10.30 9izatra, 11.00 One To One. 11.30 The Savage West.

9.55 am Early Moming Pictum show.
10.20 The Nsw Accelemtors, 10.45
Wonders of the Underwarer World.
11.10 The Flying Kiwi, 11.25 Cmzy
World of Sport. 1.20 pm HTV News.
2.45 Fridey Film Matines "Good Momino Soys." 4.15 Warner Srathers Cartoon. 6.00 HTV News. 8.30 So What's
Your Problem? 7.30 The Fall Guy. 6.00
On the Line. 10.28 HTV News. 10.30
Festival 82. 11.35 The Gelway Way.
HTV Cymru/Wales — as HTV West
except; 10.20 Follmemtown It.S.A. 12.00
Bath em Stori? 4.15 Llynnoedd y
Horestydd. 6.00 Cystadleuaeth Fidlo'r
Oydd. 6.30 Video Compatition. 10.30
Friday Night Thriller. 12.00 Video
Sounds.

Alistair Cooke, 11.00 Brian Matthew with Round Midnigh1 (stareo from midnight), 1.00 am Night Owsle (S), 2.00 You And The Night And The Music (S).

RADIO 3

S.55 am Waether. 7.00 News. 7.05
Moming Concert (S]. 8.00 News. 9.05
Moming Concert (continued). 9.00
News. 9.85 This Week's Composer
(S). 10.00 99C Northem. Symphony
Orchestra (S]. 11.15 Musicians of the
Royal Exchange (S]. 12.05 98C Wetsh
Symphony Orchestra Concert, Part 1:
Bach, Poulanc (S). 1.00 News. 1.05
Concert, Part 2: Ivea, Haydn (S].
1.45 Jscques Leguamey. 2.05 Haydn
Piano Sonatas (S). 3.00 A Cricket

- Britain? 8.35 My Music. 6.55 Six Fifty-Five Special. 7.30 News Summary. 7.35 Gardeners' World.
  - 10.50 Newsnight.
  - Globe Family." Theatre: 10.20 Golf: highlights. 11.35 John Field. 12.00 Open University.

### LONDON

9.20 am Dick Tracy Cartoon 9.45 The Master Builders. 10.10 Cathedral. 10.35 Sabotage, starring Sylvia Sidney, Oscar Homolka, Desmond Tester. 12.00 Wincey's Pets. 12.10 pm Once Upoo A Time.
12.20 Sudden Change. 1.00 Newa
with Peter Sissons, plus FT
Index. 1.20 Thames News with Robin Houston, 1.30 About Britain, 2.00 Not For Women Only. 2.45 Friday Matinee: Felix Aylmer, Diane Cilento In "The Angel who Pawned ber Harp." 4.15 Watch It! 4.15 Dr Snuggles. 4.20 Dance Crazy. 4.45 Freetime. 5.15 Film Fun.

- 5.45 News. 6.00 The 6 O'Clock Show. 7.00 Winner Takes All. pre-
- sented by Jimmy Tarbuck. 7.30 Magnum. 8.30 Rep.
- 9.00 The Gentle Touch. 10.00 News. 10.30 On The Line.
- 11.30 The Great Depression . . . America: The Hoover Years, presented Godfrey Hodgson. †12.30 am Rawhids .
- Race, starring Cliot Eastwood, Warren Oates. 1.30 Sit Up and Listen, with Lord Shinwell.

tindicates programme in black and white

### SCOTTISH .

10.00 am 6 pread Your Wings. 10.25 Nove. 11.10 The Advantures of Slack Beauty. 11.30 Johnny's Animal Opema. 1.20 pm Scottish News. 2.45 Fridsy Film Methee: "Satan Mat A Lady." 5.15 Private Senjemin. 6.00 Scotland Today. 6.30 Happy Oays. 7.30 The Fall Guy. 0.00 On the Line. 10.30 Ways and Means. 11.00 Late Call. 11.05 Thollor "Mirror Of Osception."

### TSW

9.25 am Seasame Streat. 10.25
Comic Stories. 10.40 Clapperboard.
11.05 The Extmordinery People Show,
11.30 Fanglace. 11.55 Look and Sea.
1.20 pm TSW Naws. 2.45 The Friday
reatines: "The Secret Lile of John
Chapman." 4.12 Gus Honeybun'a
Magic Sirthdays. 4.20 Rezzmatezz.
6.00 Today South West. 5.30 What's
Ahead. 7.30 Hart to Hart, 9.00 On
the Line. 10.32 TSW Lare Naws. 10.35
House Cells. 11.05 Continental
Cinama: "Sink or Swim." 12.46 am
Postscript.

TVS 9.35 am Out Incredible World, 10.00 Amazing Years of Cinema, 10.25 Comic Stories, 10.40 Cisppsrbosid, 11,05 The

on 5 Heerth (S), 4.00 Charal Even-song (S), 4.56 News, S.00 Melnly for Pleasure (S), 6,30 Anothel World (S], 7.00 Voices from the Proms, 7.30 The First Night of the Proms, Seriloz; The Trojene (sung in French) Acts 1 and 2, The Captule of Troy (S), 0.05 You Will Hear Thundel (S), 10.00 Music for Two Pisnos (S), 10.30 Words, 10.35 Overek (S), 11.15 News,

RADIO 4

6.08 am News Briefing. 5.10 Farming Today. 6.30 Today. 6.33 Yesterday in Pediament. 9.00 News. 9.05 Desert Island Discs | S). 5.45 A Sideways Look A1 . . . 10.00 News. 10.02

Extraordinary Peopla Show. 11.30 Fang-face. 1.20 pm TVS Naws. 2.45 Friday Mortines: "The Sig Job." 6.00 Coast to Coast. 5.30 Friday Sportshow. 7.30 The Fell Guy. 11.30 Cown Under. 12.50 accompany.

### TYNE TEES

9 20 am The Good Word, 9.25° North East Naws. 0.30°° The World We Live In. 9.55 Hennah Barbera Classico. 10.45 Feahion Todey. 11.00°° Sessime Strest. 1.20 pm North East News and Lookaround, 2.45 Friday Matines—" Neamet and Ceareat." 8.00° North East News. 6.02 A Real World. 5.30° Northein Lile 7.30 The Foll Guy. 9.00 On The Line. 10.30° North East Nows. 10.32 Friday Night Movie. 12.15 am Sam Sherry. 12.30 Heahem Male Voice Choir Sing.

### YORKSHIRE

9.30 em Sesame Streat. 10.30 Wild, Wild World of Animala. 10.55 it's A Musical World, 11.40 Canos, 11.55 The Underses Advantures of Captein Nemo. 1.20 pm Calendar, 2.45† Friday Film Metines: "Setan Met A Lady." 4.10 Cortoon Time. 5.00 Calendar (Emley Moor and Selmont additional, 5.30 Colendar Summer Sport, 7.30 The Fall Guy, 11.30 Speedway, 12.15 sm That's Hollywood.

Groundswell, 10.30 Oaily Service

10.45 Morning Story, 11.00 News

11.03 God Give Good Lile (S). 11.48

11.03 God Give Good Lile (S), 11.48
Natural Selection, 12.00 News, 12.02 pm You and Yours, 12.27 My Musuc (S), 1.00 The World et One, 1.40 The Archers, 2.00 News, 2.02
Woman's Hour, 3.00 News, 3.02
Atternoon Theatre, 4.00 News, 4.02
Showbiz Naturalists, 4.10 Chema Up To Now, 4.40 Story Time, 5.00 PM 6.00 Naws, mouding Financial Report, 3.30 Going Pieces, 7.00 News, 7.05
This Alchers, 7.20 Pick of the Week

9.30 Going Pieces. 7.00 News. 7.05
This Archers. 7.20 Pick of the Week
(5). 2.10 Imernational Assignment.
9.30 Any Questions? 9.15 Letter from
America. 9.30 Kalendoscope. 10.00
The World Tomghi. 10.35 Week Ending
(SI. 11.00 A Book et Bedime. 11.15
The Financial World Tomghi. 11.30
Today in Parliament. 11.45 Glyn
Worsnip. 12.00 News.

In June 1982 Despina GK was

They commenced an action in

The district court gave judg-

ment for the eargo-owners, and

awarded a maritime lien on Despina GK. The appeal court

amended that decision to the extent that the sums due abould

not be levied on any of the ship-

owners' property other than Despina GK. The final judgment,

in the Swedish Supreme Court,

up security.

### FT COMMERCIAL LAW REPORTS

## Ship's arrest for foreign judgment debt

DESPINA GK

Queen's Bench Divisinn: Mr Justice Sheen: July 9 1982

WHERE JUDGMENT in rem still under the same ownership. is obtained against ship-owners in a foreign admiralty jurisdictioo of the English court, and the ship is released from arrest upon their putting owners issued a writ claiming the up security the English Admiralty Court may later sums outstanding on the judgment of the Swedish Admiralty nrder the ship's arrest in Court. They applied for a warrant respect of moneys still due under the judgment, if the ship comes within the jurisdiction and its ownership has werraot.

The cargo-owners appealed from that refusal. His Lordship Mr Justice Sheeo so held when ordered that a warrant of arrest giving his reasons for ordering be issued, and Despina GK was the arrest of the ship. Despina GK, as security for outstanding arrested at Immingham on June 24. He now gave his reasons. sums due from her owners, Despinola Shipping Incorporated. The shipowners did not apply to have the warrant set aside, and obtained by cargo-owners, New he beard argumeot only by Mr Hampshire. In the Swedish Gruder, on behalf of the cargo-Admiratty Court. owners.

not changed.

HIS LORDSHIP said that Section 2011) of the Supreme Court Act 1981 provided that the Despina GK was a dry cargo ship. She was chartered for a Admiralty jurisdiction of the High Court ahould be "any other oyage from Antwerp to Mogadishu, on which she carried 710 Admiralty jurisdiction which il had imorediately before the commeocement of the Act." tons of skimmed milk powder. In November 1975 the cargo-

owners learned that their cargo That took one back to section had been dumped at sea. They 1 of the Administration of Jus-tice Act 1956, which provided that the admiralty jurisdiction wished to claim damages from the ahipowners. They found Despina GK in a Swediah port. should be "any other jurisdiction which was vesled in the High em in the Admiralty Court of Court of Admiralty immediately before the date of the commence-Stockholm, and arrested Despina GK on May 15 1976. Her owners ment of the Supreme Court of obtained her freedom by putting Judicature Act 1873 . .

Mr Gruder relied on that residual juriadiction, and to particular on the decision of Sir Robert Phillimore in the City of Mecca (1879) 5 PD 28, to that case the question was whether the Admiralty Court could and ought to enforce the judgment of a foreign admiralty court by a proceeding in rem.

upheld the appeal court and Sir Robert Phillimore sald at ordered that the shipowners pay the sums claimed. They paid in incident to the Court of Admiralty before the Judicature Act

She sotered a port within the Secondly, this court has always Justice Bateson said: 'The only exercised a jurisdiction founded Admiralty Court. The cargo- upon international comity with in that which the party claiming respect to the execution of the has gut by a maritime lien, and sentences of foreigo courts . . . The duty of the Admiralty Court to other people's hands. The io England to anforce the decree of arrest. The Admiralty of a foreign admiralty entire has Registrar refused to issue a been steadily recognized for a great oumber of years . . . l) is the duty of one admiralty court

> . . . to enforce the decree of another . . .". Mr Gruder relied on a comment made by Mr D. R. Thomas in his book Marilime Liens on page 330. He said: "A beneficiary of a foreign judgment in rem is therefore in the same position as a maritime [lienor] for he may pursue the res into whomagevar's

handa it may pass." That statement was not correct. There was nothing in the judgment of Sir Robert Phillimore to support it. If he bad taken the view that the plaintiffs as beneficiaries of a foreign over City of Mecca, he would have said so.

The decision of Sir Robert Phillimore was reversed in the Court of Appeal where different facts were proved; but nothing was said which undermined the principle on which he decided the case, or his statement as to the duty of one Admiralty court came within the jurisdiction. to suforce the decree of another.

The main argument against the issuing of a warraol for the arrest of Despina GK in England was that when she was arrested in Sweden her owners put up security and thereby, in effect, purchased her freedom from

page 30: "First, ... whatever Jur 885 Dr Lushington said: The authority upon this subject was affect of taking ball is to release Jur 885 Dr Lushington said: "The Grader (Ince and Co.). the ship in the action altogether. That was followed in the Point

belongs to this court now. Breeze [1928] P 135 where Mr right to arrest in a damage case a maritims lien follows the ship position of people who have sbips that have been released im bail-if I were in alluw this arrest to sland-might be very uoforiunate."

There was, of course, a distinction between claims which gave rise tu a maritime lien and which might, therefore, be enfurced against the ship notworkstanding a change of ownership and thuse claims which might only be enforced by an action in rem if the person whir would be liable in personant was still owner of the ship when the writ was issued.

Likewise, there was the further distinction between an action in rear against the ship, and execution of a judgment obtained in such an action. In the Genum [1899] P 285 the Court of Appeal held that the owners of a foreign vessel had. by appearing in an action in room rendered themselves personally hable. Accordingly, if the release of the ship was insuffici-ent to satisfy the judgment, the halance outstanding could be en-forced against any of the defendant's goods and chattels, including the released vessel if she

A judgment creditor who abtained a final judgment against a ship-owner by proceeding in rem in a foreign admirally court. enuld bring an action in reve in the English Admiralty Court If that was necessary to complete the execution of the judgment. provided that ship was the pro-perly of the judgment debtor at In the Kalomazoo (1851) 15 For the rargo-conners: Jeffren

> By Rachel Davies Barrister

### RACING

BY DOMINIC WIGAN

MICHAEL STOUTE resisted a tempting opportunity for Henry's Secret at Yarmouth oo Wednesday, preferring to wait with the Solinus fally for today's St Catherice's Stakes at Newbury. I believe the tip will prove worth taking.

A good-looking daughter of Katie Cecil, Henry's Secret has

. . . . .

looked to be a high-class filly in the making oo both her appearances to date.

The fortuitous but highly creditable conquetor of Bright Crocus at Windsor on her debul, where Piggott was caught nappiog on the runoer-up, Henry's Secrel went oo to land Beverley's Hilary Needler trophy with minimum of fuss. There, Stoute's £33,000 yeariing purchase strew well clear of Tysandi to beat her market rival by five lengths.

If, as I aoticipate, Henry's races at Warwick and Haydock

Secret proves even more effective over today's stiff six fur- her coping with She's Incredlongs, she should be good enough to account for Octavia Girl, who looked backward when springing a 33-to-1 surprise at Ascot.

Half ao hour before the St Catherine's Stakes, there is another good fillies' race; for the Ridgeway Stakes has attracted a small but select field which includes She's Incredible and Duruo, Duruo, a particularly tough and game daughter of Duboff, did well to pick up

in May, hul il is harri to see ible at a difference of only 12 lb.

Some Spare, which came fourth in the Wond Ditton Stakes, will probably land the Aldbourne Maiden Stakes earlier in the afternoon provided he can be kept on a straight course.

### NEWBURY

2.III)-Some Spare \*\*\* 3.00-Sbe's Incredible "" 3.30—Henry's Secret 5 4.00-Dawn Ballet

### **COMPANY NOTICES**

### SANDVIK

Bank of America NT & SA London bereby give notice that in accordance with the terms and conditions of the obove loan, the redemption of \$1.300.000.00 Bonets due the 1st August 1982 has been carried out in the following manner. US\$1.262.000 principal amount bonds have been purchased in the open market by the Company, the remaining US\$228,000.00 principal amount bonds have been dimter at par or 14th Jay 1982 in the presence of a Notary Public pursuant to the terms and conditions of the above loan. Bonds drawn are listed below and may be presented to Bank of America NT & SA. 25 Cannon Street, London EC4P 4HN or the other paying agents named on the bonds.



GREATERMANS ETORES LIMITED

NOTICE IS HSRESY GIVEN that the Board of Directors has declared the following dividands cayable on 31st August. 1982, to 8%, 5%, Second 5%, and Third 5% Preference Shareholders respectively. Inglistered in the books of the Company, at the close of business on Friday Soth July, 1982: A—5%, CUMULATIVE PRSPERSINGE SHARES—DIVIDENO No. 93. A dividend of the rate of 8% per engan for the six months ending 31st August, 1982—equivalent to 8 cents per share.

8—5% CUMULATIVE PRSPERSINGE SHARES—DIVIDENO No. 79. A dividend of the rate of 5% per annum for the six months ending 31st August, 1982—equivalent to 5 cents, per share.

C—SECONO 5% CUMULATIVE PREFERENCE SHARES—DIVIDENO No. 79. A dividend of the rate of 5% per share.

C—SECONO 5% CUMULATIVE PREFERENCE SHARES—DIVIDENO No. 79. A dividend of the table of 5% per share.

73
A dividend at the rate of 5° per annum for the six meaths ending 31s1 August, 1982—equivalent to 5 cents per share.
—THIRO 5° CUMULATIVE PREFERENCE 3HARES—DIVIDENO NO. 71

A dieldend at the rate of 5% per annum for the six months ending 31st Ausust, 1982—equivalent to 5 cents per site.

The dividends are declared in South African currency and dividends envalle from the London Office will be paid in United Kingdom currency calculated at the rate of exchange ruling between Rend and Sterling on 19th August. 1982.

Rend and Sterling on 19th August.
1982.

Olvidend chromes despatched from
the London Office to persons resident
in Great Britain or Northern Ireland
will be splicet to a deduction of
United Kingdom income Tax et rates
to be Taxes.
The Commany will, where applicable,
deduct the Non-Busidomt Shareholders'
Tax of 15°, from dividends payable,
For the purpose of saying the slove
fividends the Share Registers, in repart of the above Preference Shareholders'
Alvist, 1962, both days inclusive
olividends cheques to asyment will be
possed on or after 51st August, 1982.
By Order of the Board.
Registered Officer
Register

Revisterad Officer
220 Commissioner Street.
Johannesburg, 2001
South African Transfer Secretaries:
Central Registrars Limited.
154 Mayes Street.
Johannesburg, 2001
19.0. 804 4844,
Johannesburg, 2000.
London Transfer Secretaries:
Granby Registration Services.
Boarne Mouse.

Krot. 885 4TU. United Kunadom.

NIPPON CHEMICAL CONDENSER CO., LTD.

(CDRs)

The undemigned announces that as Irem 28th July 1982 at Kea-Aasociatie N.V., Spuistraat 172, Amsterdam and et Benque Internationale à Luxembourg S.A., Luxembourg div.cp.no. 7 (accompanied by en "Affidavit") of the CDRs Nippon Chamical Condenear Co., Ltd.; will be payable with USS 39,32 net jdlv. per record-dets 31.3.1982; grass Yan 12, p.sh.) after deduction of 15% Jspanase tax = Yen 1.800. = US\$ 8,94 per COR. Without en Affidavit 20%, Jepanase tax (= Yan 2.400. = US\$ 9,25 per COR] will be deducted. After 31.10.82 the dividend will only be paid under deduction of 20% Jep.tax with USS 37.01 per CDR, in accordance with the Jspanese tax regulations.

AMSTEROAM DEPOSITARY COMPANY N.V. Amsterdam, 9th July 1982

UNION DE BANQUES ARABES ET FRANCAISES HRAF. LOAN OF US \$55,000,000 FLOATING RATES 1080:1990

Boedbolders are hereby Informed that the applicable rate for the sixth period of interest has been fixed at 15:% Coupon No. 8 will be payable as from January, 1985 at a price of US 584.35 which is a 16:% interest worked out on a basis of 164/360th covering the period from July 12, 1982 to January 11, 1983 inclusive.

CREDIT LYONNAIS—
LUXEMBOURG

J. ROTHSCHILD INVESTMENT HOLDINGS B.Y. (Incorporated with limited liability in the Netherlands)

£12,000,000 144%; GUARANTEED FONDS OUE 1990 144% GUARANTEED CONDS OUR 1990
Bondholders are hereby informed that
the August 15th 1952 redemption instalment of £800.000 has now been full
satisfied by purchases in the open morkot.
The balance remaining in circulation is
excensive £10.400.000. THE CHASE MANHATTAN GANK NA.

Lordon Principal Paying Apent

71% 1972/1987 FF 100,000,000 Bonds

KINGDOM OF DENMARK

Notice is hereby given to Bondholders of the above Loan that the amount redeemable on September 1, 1982, i.e. FF 6,000,000, was bought in the market. Amount outstanding: FF 58,000,000. Luxembourg, July 15, 1982

The Fiscal Agent
KREDIETBANK
S.A. LUXEMBOURGEOISE

THE PACIFIC FUND S.A. Societe Anonyme 14, Rue Aldringen, Luxembourg

DIVIDEND ANNOUNCEMENT DIVIDEND ANNOUNCEMENT
The shareholders are hereby loformed that the Annual General Meeting of Shareholders of July 12th, 1982 Sax approved the payment of a dividend of USSO.013 per share to shares subscribed and in circulation on July 12th, 1982 psyabla immediately against presentation of Coupon No. 1.
The shareholders can cash the dividend at the following bent: Jargos Generale du Luxenbourg, S.A. Luxembourg.

THE ROYAL BANK OF SCOTLAND PLC (The Royal Bank of Scotland Limited)

US 330.000.000 FLOATING RATS
CAPITAL NOTES 1083
US 573.000.000 FLOATING RATS
CAPITAL NOTES
OUE 1988 TO 1994
NOTICE IS HERERY GIVEN to Noteholders that the above Bank's office
as a Paying Agent In respect of the
captioned Issues is being changed from
82 Lombard Street. London EC37 OSE
024 Lombard Street. London EC37 OSE
024 Lombard Street. London EC37
OSA with effect from May 17, 1982.
The Principal Paying Agent
KREOLETBANK
May 17, 1982.

**LEGAL NOTICES** 

THE BOARD OF DIRECTORS

No. 003282 of 1982 In the HIGH COURT OF JUSTICE Chancery Orvision IN THE MATTER OF

IN THE MATTER OF
ROTAPRINT pic
ANO IN THE MATTER OF
THE COMPANIES ACT 1948
NOTICE IS HEREBY GIVEN that a
Patirion was on the 2nd day of July
1982 presented to her Majesty's High
Court of Justice for the confirmation
of the reduction of the capital of the
above-named Compeny from £3,033,816
to £2,274,441
ANO NOTICE IS FURTHER GIVEN
that the soid Petition is directed to

ANO NOTICE IS FURTHER GIVEN that the soid Petition is directed to be heard belors the Honoumble Mr. Justice Neutres at the Royal Courts of Justice, Strand. London, WC2 on Monday 28th July, 1982.

Any Creditor or Sharaholder of the seid Company desiring to oppose the making of an Order for the confirmation of the said reduction of capital should appear of the time of hearing in potson or by Counsel for the purposs.

A copy of the said Petition will be turnished to sny auch parson requiring the same by the undermentioned Solicitors on Payment of the regolated charge.

IN THE MATTER OF YEOMAN TRANSPORT (SEARSTED) LIMITED AND IN THE MATTER OF THE COMPANIES ACT 1948

NOTICE IS HEREBY GIVEN that the creditors of the above-nomed Company, which is being voluntarily wound up, are required, on or belors the 13th day of August, 1982 to send in their full Christian and aumannes, their addresses and descriptions. Juli particulars of their debts or claims, and the names and addresses of their Solicitors (id any), to the underingned PATRICK WALTER JOHN HARTIGAN Carter Lane.

London EC4V 5AJ London EC4V SAJ

the Liquidator of the said Company, and, if eo required by notice in writing from the said Liquidator, are, personally or by their Solicitors, to company and prove their debts or claims of such lims and place as shall be specified in such notice, or in defeault thaireof they will be excluded from the benefit of Sny distribution made belove such debts Sre provide.

P. W. L. HARTIGAN, Liquidator.

Slacktriers House,
19, New Bridge Street,
London ECAV 99Y.
Solicitors for the said
Company.

### PERSONAL

Charge.
Oated this 14th day of July 1982.
CLIFFORO TURNER.

THE GULBENKIAN TAXI "will turn on a sixpence, whatever that is "

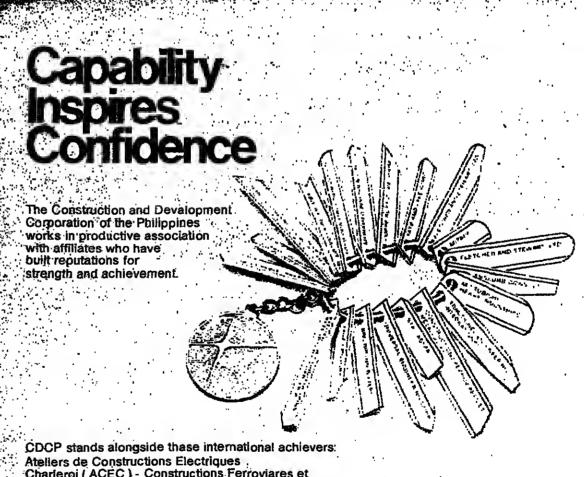
This superb capitalist tool was commissioned by the late oil magnete and has covered 7,200 miles. It has a hand-built Sedsoca-de-Ville body and will accommodate five passengers io great style. It can be operated very economically, and is a unique opportunity for a discerning individual or corporate body. We will consider all offers, deals and ioteresting part

> Telephone: 01-235 8177 (office hours)

EMTLEMAN with new estate car. Impec-estate refs. Available for Sire and also collection-delivery of documents and valuable items. Tel. 01-323 1255.

**CLUBS** 

EVE has outlined the others because of i policy of fair day end value for money Supper from 10-3.30 am Onco and co-musicians, diamerous bostesses, excitin floor: her. 5: 282, Regen; St. 01-7.34 0357



Charleroi ( ACEC ) - Constructions Ferroviares et

Metalliques - Tractionel Engineering International - Transsurb Consult ( Belgium )

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**MANAGEMENT** 

# How Deutsche Bank found a safe path through a global minefield

West Germany's largest bank has avoided the troubles that are afflicting many of its competitors. Stewart Fleming reports

WERE it not for the eccentricities of German accounting, the closest domestic rivals of West Germany's largest commercial bank, Deutsche Bank, would mbarrassment when they published their 1981 results.

For while some of its main competitors were for the second another plunge in profits (or no profits at all), lower dividends (or no dividends at all) and further management and organisational shake-ups, Deutsche Bank disclosed that not only had it weathered the financial storms in the German markets again, but its return on its DM 192bn of assets was the best in its history, better even than in

German banks have performed is difficult to judge because of go to to disguise the extent of their profits — or losses. Comtoo, are difficult because of different accounting merhods of consolidating domes internatiooal sub-

In the case of Deutsche Baok however, between 1979 and 1981 bank reported that its perating profits had doubled to DM 1.5bn (\$600m). Pre-tax operating profits provide one reasonably firm base in the shift-ing sands of German bank expansion of the German banks accounting since they ere struck on the international scene. before most of the coojuring Latterly as banks such as tricks which the accountants Dresdner Bank, Commerzbank perform with securities valua- and Wesetdeutsche Landestions, provisions and the baoks' bank bave trimmed beck the trading on their own account in rate of expansion of their interforeign exchange, gold and national assets and in some

The accompanying table, prepared by IBCA Baoking lems and the prospect of atiffer Analysis of London gives some legal capital adequacy requireindication of the relative profitability of the big three German banks at the operating level in cautious competitors. the past two years. The banks themselves would no doubt with the individual figures, but the overall picture they present would appear to be it is still pursuing the same a fair one bearing in mind that measured international growth own account trading profits and as before, albeit with shifts in osses are not included.

emerges from the comparison so well is of more than local interest. The bank is the ninth largest in the world and its currency lending through the

GERMAN BANKS' NET OPERATING RESULTS 1981 (Consolidated figures DM m)

	D	EUTSC		. <b>D</b> l	RESDN	ER %	COM	MERZ	BANK %
Income:	1981	1980	% change	1981	1980	change	1981	1980	change
Net interest revenue	3,897	3,184	+22.4	1,889	1,642	+15.0	1,141	967	+18.0
Net commission revenue	996	891	+11.8	702	612	+14.7	451	413	+ 9.2
Dividend revenue	301	271	+11.1	147	173	<b>~15.0</b>	87	95	- 8.4
	5,194	4,346	+19.5	2,738	2,427	+12.8	1,679	1,475	+13.8
Expenditure:				<del></del>					
Salaries	(2,389)	(2,238)	+ 6.7	(1,659)	(1,605)	+ 3.4	(1,135)	(1,088)	+ 4.3
Other operating expenses and depreciation		(1,050) (3,288)	+13.1 + 8.8	(810) (2,469)		+ 2.5 + 3.1	(430) (1,565)		
Net pre-tax operating income	1,617	1,058	+ 52.8	269	32	+740.6	114	-36	112
Group assets (DM bn)	192,4	174.6	+10.0	*170.0	159.0	+ 7.0	101.3	100.0	+ 1.3

years for the West German banking industry will not bave esceped the notice of such international competitors auch as Citicorp, Bank of America or

\*Ausiness volume

In the 1970s such competitors watched with fascination, even cases of their overall balance sheets because of profit probthe Federal Republic'a ments. banks have become more

Deutsche bas not had to lurch from one extreme to the other. bowever. At a time when domes tic lending has been depressed, priorities. It has been cautious The fact that Deutsche Bank in recent years in making low margin balance of payments financing loans and is putting more emphasis on local

expanded, especially in the past five years. Dr Wilfried Guth, joint chief executive of the bank, says: " is the style of this bank to make gradual moves."

He stresses that the bank "has been very profit-orientated" without of course drawing invidious comparisons with the asset-orientated expanaion of many of the bank's domestic rivals, edding only that profit orientation "will determine our business policy. I do not care for size but I do care for growth, to attract good people, and maintain motivation and profitability."

### **Volatility**

Quality of management bas become an increasingly decisive international banks in recent years. As the pace of change and the volatility of international markets has increased the importance of sound judgment has become more and more critical, as has the more mundane but equally vital task of ensuring that shifts in policy are communicated down the organisation and acted upon

empire has been more responsive to shifts in policy at the

systems are, however, only part of the explanation for the bank's success in riding the stormy financial markets of the past two years in Germany. It also has the good fortune of being the domestic market As a Swiss banker remarked

that Deutsche, for

example in its judgment of interest rate trends or in East

Bloc lending, has not only been

rivals but that its far flung

recently. Deutsche Bank is in the bappy position of being able to quote terms and if the to quote customer does not like them to show him the door.

This domestic base has been built up over decades and has given today's menagement an enviable inheritance both terms of market position and hard cash. As a universal bank (like its many competitors) the business encompasses not just retail and commercial banking but also issuing and dealing in securities and extensive and valuable holdings in industrial



Deutsche for example holds over 25 per cent of the shares of Daimler-Benz-worth around DB 2bn. IBCA Analysis recently calculated that the bank's eight major industrial holdings bad e market value of almost DM 3bn against a book value of 1.2bn part of the bank's hidden

These close ties with industry, the issuing house activities in both domestic and international securities markets and the advisory services for both comme cial and private customers are all factors which have belped the bank to built up a very sub-stantial annual to income. Stable commission income especially attractive to banks M these days of pressing equity tile interest and exchange rates, and Deutsche commission earnings of DM 966m have grown steadily from DM 400m a

decade ago. Its retail banking business, too, has been a vital element in its recent performance. With 1,300 retail branches in West Germany and 5m customers, Deutsche is a powerful competitor for the German savings and co-operative banks. Indeed it has been known to boast that such venture. While it may has made no major U.S. acquisit is the biggest "savings have owed something to the bad tions, it has, as Dr Alfred

bank" in Germany. In last vear's balance sheet it bad DM 20bn of savings deposits which were costing between 5 and 7 per cent in a year when lending charges ranged between 12 and 17 per cent.

Employing cheap funds probably is as important as having them, however. It is the failure to do this which accounts for the short fall in the profits of many of Deutsche's major in the past two years.

The bank recognised earlier than they did (although some what later than the big U.S. international banks) both the dangers and the opportunities presented by international liability management. And It did not commit itself as easily long-term fixed interest

The Polish loan crisis has so provided some evidence at Dentsche's judgment of lending risks was better than that of many of its competitors. Like all German banks Deutsche lent heavily to Poland, but substantially less than its biggest competitors.
Other banks have, partly be-

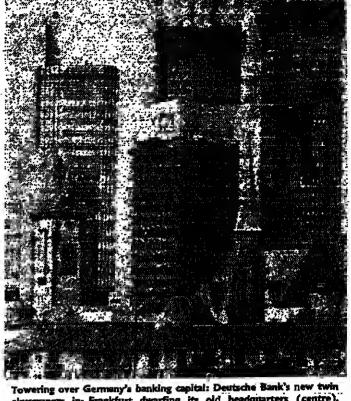
cause of inadequate profitability, made provisions of only around 10 to 20 per cent against the Polish exposure. But Deutsche Bank is generally believed to have put aside provisions cover-ing most, if not all of the risk, as well as a multitude of other lending risks which are facing it and its domestic competitors, the national bankruptcy wave.

That at least is the conclusion which has been drawn from the remarkable risk provision policy the bank has followed in the past two years.

### Modest :

The figures provide only a general guide because once again the bank's accountants are able to juggle with the figures before disclosing the provisions figure. But in a pre-sentation in New York in May Dr Guth remarked that in the 1981 the bank put aside net loan loss provisions of \$728m adding "the gross figure is still

The bank's presentation in New York in May was its first



rapers in Frankfurt dwarfing its old headquarters (centre). the Hessische Landesbank (left), and the city's old town hall. Dr Wilfried Guth (left), joint chief executive, insists that the cares not for size but for growth

press which German banks have Herrhausen, the board member been getting in the U.S., there have been signs too that "gradually" Deutsche Bank is stepping up its commitments in the U.S., a policy which would and, incidentall fit in with both its international finance companies. standing and its increasing preoccupation with the corporate market—after all the densest concentration of major inter-

Even though Deutsche has a major world-wide business with around 40 per cent of its earnings and assets coming from internationel activities, in relatlon to its size—and its competitive position vis a vis the Deutsche's U.S. business is relatively modest. Its branch in New York bas assets of It has, in some \$2.5bn. observers' eyes, an anomalous 20 per cent stake in the European American Bank (a Euro-pean consortium bank), it owns a securities house, Atlantic Capital Corporation, and e finance company with assets of

Since the New York branch vas opened in 1979 the bank bas been steadily expanding its U.S. operations. Although it While it may has made no major U.S. acquisi-

DM 214m.

responsible for the U.S., dis-closed been "offered opporcrosed, been "offered oppor-tunities to buy into existing American commercial banks and, incidentally,

Laws governing both American banking and securities business, and Deutsche's own important industrial boldings in Germany all combine to make the ecquisition route into the U.S. a legal minefield for a German bank, especially at a time when "de-regulation" is promising to alter the U.S. legal landscape.

Cultural incongruities must also play a role, although the Hongkong and Shanghai Bank may be demonstrating ways around that Buffalo in upper New York State and the Orient could scarcely be described as natural partners, but it was the banks of which Hongkong and Shanghai bought control in 1980.

So far as Deutsche is concerned the outside observer can only remark that with a securities house on Wall Street, a branch, a finance house and a stake in a U.S. bank, the big German banking institution bas given itself the opportunity to gain experience in all the major wholesale financial markets.

## **TECHNOLOGY**

EDITED BY ALAN CANE

DAVID FISHLOCK'S final profile of UK engineers: Cyril Hilsum of the Royal Signals and Radar Establishment, Malvern

# Cheerful attempt to marry man and his machine

envied, is trying to marry man and machine more closely. His speciality is the interface called the electronic display, the "window" through which man can see bow his machine is be-

He holds the rank of deputy director but is one of a small, highly privileged cadre of senior defence scientists who largely are shielded from executive of Concorde. responsibility in order to keep them creative. He has more than 30 inventions to his name on behalf of the Defeoce

20 scientists, spending about £750,000 a year, working in one of the most advanced technologies of his establishment. But from Far East makers of watches, watch-pens and electronic games.

Hilsum gratefully acknow-ledges that a slight misunderstanding on the part of a politician. Mr John Stonehouse, then

manufacturing industries.

and production engineers.

Tel. (0664) 64133 Ext. 329 or 380

The watchword of the (then) Ministry of Technology was

"civil fallout" from defence re-

assertion by Hilsum's director that the royalties Britain was paying RCA for its Shadowmask cathode ray tube patents-basis of colour TV and displaysamounted to more than the cost

The director's point was that politicians should not get Concorde's costs out of proportion. But Stonehouse asked the director to develop a flat-screen Hilsum runs a group of ebout display to supplant the Shadow-nask. So Hilsum was invited to draw up the research pro-

Hilsum brings to the probjust one of the developments lems of man-machine relations from his group—novel chemi- an astonishing skill in human cals for liquid crystal displays communications, permeated by —earns Britain annual royalties a puckish and irreverent sense estimated at £500,000, mostly of fun. His career, from leaving of fun. His career, from leaving University College. London, at the end of the Second World War, has been spent in defence research. He admits cheerfully. that it has not been without

gremme.

—Talk to PERA

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It began with an intelligence

ject of infra-red night vision. In 1946 be drafted an appraisal which led a aenior Navy sciensearch.

Stonehouse seized upon an talent at HQ and should be

doing research. His debut with the 'Admiralty Research Laboratory included passing the Civil Service exam "with the minimum mark." Then, at 26, he found himself veloping army night-sight equip-ment. But he "failed abysmally" attempts to promote him because be was quite inexperi-

enced in administration. As part of the Admiralty'a first research effort on semiconductors in the early-1950s, however, Hilsum soon specialised in semiconducting compounds, notably gallium arsenide, a "beast" of a material, not least of the problems of which was the case with which it exploded.

Modestly, he recounts taking responsibility for gallium arsentide in 1960, "at a time when they'd solved most of the problems, so I got a lot of credit I didn't deserve." Following the invention of the first semiconductor research, he claims.

Displays seized bis imagination about 1970 when it became clear that the remarkable atrides Malvern was making in miniaturising radar systems ductor laser in the U.S. in 1962.

Hilsum's group was the first to demonstrate it in Europe. But the "invention" for which be is pleased to take credit is industrial consortium-"probably the idea that's lived longest." He persuaded four fiercely competing British electronics companies-GEC, Marconi, Plessey and STL-to collaborate in e long-range reaearch project using Ministry of Defence funds. Mullard joined

CYRIL HILSUM. 57, with a a technology minister, gave him task, scanning reports—"about arsenide at a time, 1961, when shock of white hair that the his big chance to apecialise in elderly Elnstein might well have man-machine relations. German prisoners on the sub-invented. The venture was "extremely unofficial" - the company managements did not want to know.

The Admiralty laboratory at Baldock, where Hilsum worked, provided materials technology. Each company tackled a clearly defined part of the project.

The secret of successful collaboration is that "everybody'a got to feel be is giving a bit more than he takes." Each partner must believe it is slightly unjust for him—"but only slightly." Hidsum, as the "un-biased neutral" in the venture, occupied a pivotal position as chairman of the consortium.

The consortium collapsed when Hilsum moved to Malvern in 1963, as an individual-merit SPSO, free to undertake his own line of research. But the ministry got it started again this time officially. It put Britain ahead of the world in

miniaturising radar systems were not being matched in displays. A flat-screen was urgently needed—it should be more compact end more rugged than the

cathode ray tube.
At the last moment Hilsum made an intuitive switch in the proposed research programme, putting emphasis on liquid-crystal displays (LCDs) instead of ferro-ceramic displays. He never had cause to regret that "purely instinctive" action for the ferro-ceramic display is

later. long-forgotten. electronics that have just a civil But technology which could The first target was an integrated circuit based on gallium was better materials than indus-



Professor Cyril Hilsum: puckish sense of fun

sum's suggestion, e collabora-tion was struck between Mal-His funding comes equally from vern and Dr George Gray of Hull University. It has been one of the most rewarding the Ministry of Defence ever to see his displays introduced funded, earning overseas royalinto a range of new Army ties for Britain of about systems including Ptarmigan, £500,000 a year.

"There are very few things in

try had been exploiting. At Hil- can turn them either way." His

On the military side, he bopes for battlefield communications. and Rapier.

the Defence and Industry

cockpit, reducing and even elimineting the maze of dials by using displays on which the pilot calls up only the information be needs at a given moment

For Cyrll Hilsum, such an application would be a "sensible linking of electronics with the display," vastly simplifying the cockpit. Flight trials are now being made to learn whether they will improve the marriage

Brewers turn to biotechnology to improve breeding characteristics of yeasts

# How to reduce the cost of a better pint of beer

BREWERS are looking at the possibilities of biotechnology to speed up and cut the cost of beer-making.

The Brewing Research Foundation is trying to develop new forms of yeast to improve the fermenting process. At its headquarters in Redhill, Surrey, genetic engineers have been experi-menting with yeast for three

They have used techniques such as genetic manipulation and rare breedlog-meting yeasis of different varietiesto obtain new types. Among the first yeasts which could become available

to brewing companies on a commercial basis is a yeast for use in making low carbohydrate beer. This can produce a lower calorie beer by degrading the dextrin found in the barley malt.

Other new yeasts include one which speeds up fermentation which could cut storage costs, another yeast is being

ability to attack and destroy contaminants in the brewing wort. This is a problem often encountered in socalled "real ales."

The scientists at the foundation also believe that there will be a demand for a yeast which produces more fat compounds. This makes the beer head stick to the side of the glass

The foundation has also tried to improve the beginning of the hrewing process

where the barley is converted into malt by germinating the seeds in water. At Redhill, scientists have found that it is quicker to convert the starch into sugar by two stages rather than the traditional methods which use a relatively long single

Artificial enzymes have also been developed which can cut the whole process from 10 to only four or five days. Before the yeast is added the sugars are boiled. In this

form it is called the wort. The wort is boiled to destroy bacteria and any proteins which may make the final product hazy.

This part of the process consumes as much as 70 per cent of total energy used and the foundation believes that by studying the chemical reactions which take place during boiling they can shorten the process with conenergy and



### Converters

### Ferranti package

produced a 10 bit monolithic analogue to digital converter in a moulded peckage. The com-pany claims that this is the first device of this type to be produced in this way in Europe. Ferranti says that manufacturing constraints have forced 10-bit converters to be made in expensive ceramic packages. The new moulded packages cost less than half its ceramic equivalent. More information oo 061 624 0515.

FERRANTI ELECTRONICS has

### Travel **Computer** booking

THOMSON HOLIDAYS, the UK's biggest travel company, this week started live trials of its planned computer booking system for travel agents. At present, 66 travel agents around the country are connected to Thomson's TOPs system which links videotex television sets to the company's main booking computer over the telephone network. The company plans to operate a full national service in the autumn.

### Advertising Software

APPARENTLY even the glamo rous world of advertising will not escape the influence of the computer, because Philips Busi ness Systems has introduced 2 special software package for advertising agencies

Its system is aimed al medium-sized companies to in crease control over invoicing, and advertising costs, as well as management reports and client Gian More Information on 0206

# RESTORING A SCOTTISH BANK, WE HAD TO WATCH THE OVERHEADS.



The Banking Hall of the new London Chief Office of the Bank of Scotland has a truly magnificent listed ceiling.

In glazed ceramic, and in 'art nouveau' style, it's the work of the famous Victorian designers and manufacturers, Burmantoft.

It was something Wates had to watch very carefully indeed when we started to restore and develop the site, behind a listed

Victorian facade.

There was, indeed, plenty in the contract that might have put the ceiling in jeopardy.

Removing the existing roof, to extend the building by another floor, then building a new mansard in keeping with the Palladian style of architecture.

Replacing a lightwell to the rear of the building in order to 'stitch in' a new steel frame for seven new floors.

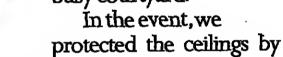
Re-building the bank's basement in order to install two new two-storey vaults.

In addition, a 7-ton generator and other heavy plant had to be hoisted to the roof. All in the face of incredible access and egress problems.

Our only means of getting to the rear of the site was through a narrow courtyard, Threadneedle Court, alongside the Bank. (Threadneedle Street has a double

yellow line, which meant no off-loading during normal hours.)

Thousands of cubic metres of material excavated from the basementhad to be removed at night-time through this busy courtyard.



The beautiful circular ceiling in the West Pavilion Reception Office. covering them with nylon netting stretched between steel cables.

And protected them from rain above by waterproofing the third floor with a special membrane (allowingus to demolish the old slate roof).

Down in the Banking Hall, we carefully restored marble columns, gold leaf decoration, and the magnificent mahogany vestibule.

In the floors above, we installed modern airconditioned offices for the Bank's Directors and staff, with three lifts, a modern staff dining area and a prestigious Directors' Boardroom.

And all the electronic wizardry that a modern bankingheadquarters needs.

We handed over Phase One of the building last November, on the agreed date.

In that time, we had more than doubled the original floor area of the Bank.

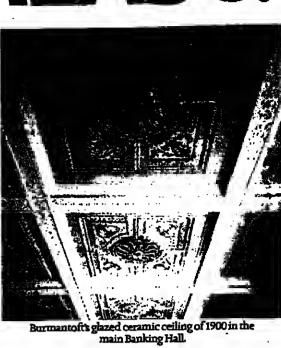
And provided the Bank with a perfect blend of 19th century elegance, and 20th century office efficiency.

The Chief Architect of the Bank said he was impressed not only that 'Wates cared' but that 'Wates people cared' from boardroom level to the site operatives.

It's an attitude to construction we're very proud to adopt, and be known for.

Whether it be a Bank, or a superstore, or a local authority that signs the cheque. wates build with care





# Overseas enthusiasm for U.S. real estate still plentiful

THE United States real estate has since risen from 10,000 to listing is put down to all the

As talk of inevitably rising Fields and rapidly faltering Schroder Real Estale Corpora-duce itself in London was not tall in the UK property mar-tion, the company's property an easy one. he City so a series of events ceremony that while those and deals has kept the spottight nasty rumours about an ailing trained on the U.S. The general U.S. market could hardly be approach seems to be that denied. Saracreek's perform-American real estate are of left the rest of the field little langer-term consequence standing.

According to Mr Brossman.

Dutch company investing in sionary properly, usually five and quality, completed, incometo to to years old, which tends acoducing office huildings and States. Potential uplift."

Monday will see the start of dealings in Saracreek shares on tion carried out last November. he Landon Stock Exchangethey are already quoted in recent valuation prepared in Amsterdam and Paris—and the advance of the new listing. manany hopes to attract instisurional and private investors Schroder do admit to having interested in establishing, or "backed away" from the stepping up, holdings in U.S. market in recent months and. commercial property.
Satacreek has a portfolio of

closen properties with a March 19/2 reluction of £125.2m, A "shelt" company reorganised in 1977 by Schroder Wage, the Araro Bank and Banque Privee

confidence but the present bout asset value per share reaching of herves does not appear to \$34.46. Current share price have weakened the resolve of stands at around \$25.74, giving those outsiders intent upon a market capitalisation of snatching a share of the action, about \$119m.

and should be regarded as a solden opportunity rather than walke for fright among the laid-heuried.

Then, certainly, was this properly message from quaintly the past year, but Sara-regard message from quaintly the past year. But Sara-regard message from quaintly the past year, but Sara-regard message from quaintly the past year. That, certainly, was this over the past year, but somework's message from quaintly creek's experience had been very different. "We buy reverged the past year, but some weight of the past year, but some weight of the past year. to he undervalued in the States

> As a result, a market valua-Saracreek and while they bought 10 properties in 1980 and five in 1981, they have yet to sign a deal in 1982. There is, however, over \$20m patiently waiting for the right opportunity and this could be accounted for by the end of the

appear as though Saracreek which has greeted some of its European money-raising efforts Mr Charlie Grossman of and that the decision to intro-

### Columbia

FOR those less likely to vetenthusiastic about the possibility of some excitementnamely tax-exempt pension funds—time is running out to take up the first offer of \$50,000 units from Columbia Property Trust, a new unit trust with a from a range of blue-chir ( properly experis. The Trust, advised by Healey

perties. Hill Samuel Property Management and Travelers Asset Management of New York, intends to acquire : Management of New spread portfolio and will convelopers and other investors, 1; accepts that others before it have made mistakes but it reckons it has learned a lot from watching their errors. Closing date at Hill Samuel's is July 29.

THERE ARE, of course, other ways of investing in the American property market and Baring Brothers, the UK merchani bank, has taken up

market may have temporarily over 4.6m. Earnings per share usual factors, such as prestige consultants. Landauer length national activities, describes lost its characteristic self-stood at \$2.85 in 1981, with net and wider exposure but it does consultants. Landauer length religion of the manufacture of the consultant of the consu national, taking our Spearson/ has sometimes been less than American Express and Iwo enamoured with the enthusiasm other German and Swiss holders. transaction probably valued the whole of the Landauer equity at close to

The deal leaves Landauer deal. with firee other shareholders: de own senior management. UK estate agents Hillier Parker

commercial property services Roger Cockhill, the Hillier Parker partner responsible for

THE Post Diffee Staff Superannuation Fund and Milsui Real Estate of Japan, the largest Japanese real estate in terms revenues, have agreed in prin-

London and Tokyo. The two may also study further long term joint investments in other parts of the world, according to Ralph Quartano at Possfund, Mr. Quartano accepts that everyone will want to kunw what London properties are heing ennsidered, but says he is not yet ready to give such

property interests in

The arrangement reprea highly unusual altempt for an overseas investor in penetrate the Japanese property market and the first

venicle." Most U.S. real estate is dealt in by brokers whereas Landauer is a consultant working on a fee basis. Last year, it was involved in the \$400m that is in real eslate. sale of the Ford Motor building ats high margin gross revenues in New York and this year if of just under \$12m (nearly was at the centre of the \$500m General Motors building option

> "Landauer seems to have a nnique position in real estate advisory work. says M. J. Rive't Carnae. a managing director of Baring Brothers, "It is determined not to be a mass market broker, and to keep its top-of-the-market niche."

swap of respective participations in one London and one Tokyn property. The two partners have known each other for some time and inined forces for a scheme in Paris.

DIXONS Photographic property division was the pur-chaser for £1.8m of Nash House, the London freehold premises of troubled Sotheby Parke Bernet. The deal was apparently concluded during ene of the many fulls in play at Wimbledon and will be followed by a Dixons planning application to redevelop the sile, on the corner of Maddox Street and St George Street, to provide about 10,000 sq ft of office finor-

ness is domestic pension fund management which, by its specialised nature, covers portions THERE IS considerable exclient of the funds of 30 or 40 major corporations. It has over \$14bn under management but nooe of

Rivett Carnae sees Barines' motivation in this deal as first, this week that the U.S. involvebuying a good investment, secondly, setting expertise on the ground and thirdly, im-proved management capability. For some time, it has seen real estate as a gap in its investment management expertiseand this includes the UK.

Landauer, clearly, expects to profit from the misfortune of others. The sales Cnekhill sees coming up will involve itself advising on disposals from the particular of major developers.—some of them Canadians under pressure from short term bormwings at high rates—on a hasis which is expected to be geographically widespread hut with preponderance of office buildings and a number of shop-

tandaller is a very long term invesiment while their new partners, Hiller Parker attack the problem of UK investment in U.S. real estate in more general terms: "ool an ideal moment to float a lot of new funds, but a good moment for expertise," is how Ruger Cockhill outs it.

The market is far more difficult than anyone expected 12 months ago," he says. He does not see a crisis of 1974 propor-

Barings have an office in New but expects plenty of opportuni-York, where their main busi- ties to buy.

Savills

ment al the Grosvenor Hill offices of Savills, with the open-ing of its Washington DC operation little more than two weeks away. Savills emphaged entailing the acquisition, management and perhaps valuation of agricultural land, very hard to huy in the UK but which menl. Savills have been studying closely in the U.S. since the lift-

ing of exchange controls. After a year or more of falling U.S. land orices and low commodity prices, Savills helieve that the time is now right for land purchase. Leicester Le Sueur, leaving shortly for Washington to be Savill's senior partner in the U.S. was less concerned with domestic market sensitivity than with the sterling/dollar relationship.

AS FOR nthers favouring the totally direct approach, look no further than Gerald Ronson's Heron International, the hold-ing company for the British-hased Heron Corporation. Mr Ronson must be feeling pretty pleased about this week's land deal, concluded in Tueson, Arizona

Heron in partnership with two Tucson based developers, Don Diamond and Frank Aries has paid \$75m (£43.5m) for 12,500 acres of development land in and around Tucson. The tongues will tonsen after any 25 separate parcels of land substantial reversionary intinns threatering the market, formed part of the estate of the creases.

Heron is already well on the way to remuning the purchase price and has presold 1,500 acres empecis in have fully recovered the ourrhase price by the end ment will be highly specialised, of this year when Hernn could he left with 5,000 to 6,000 acres which will either be developed by Heron or sold for develop-

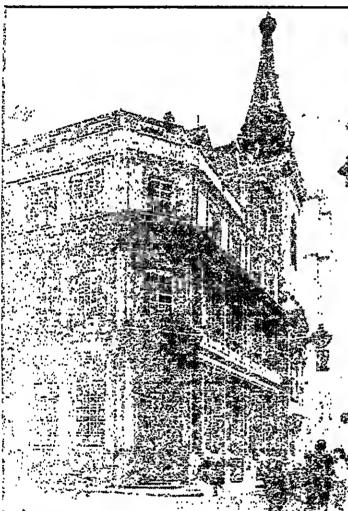
The deal appears reminiscen of the real estate enup pulled nff hy European Ferries in Denver, Coinrado. appears to be to break up the land halding for resale to recnup the original purchase price and then redevelop the remaining parcels of land in parinership and preferably using other people's finance.

Unhappily not everyone annears sufficiently sure of thomselves to talk about what they are doing. Debenham Tew-son and Chinnocks were this week happy ecough to say they were involved in the purchase for \$20m, of 489 Fifth Avenue. New York, on behalf of "a major UK institution," but much less enthusiastic about identifying either the pur-

chaser or vendor. The 140,000 sq ft office tower. which represents the first major U.S. property acquisition for several tenants and the majority of leases enme up for renewal

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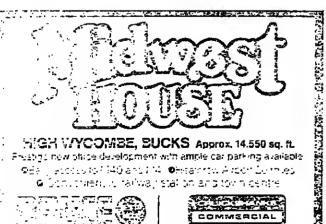
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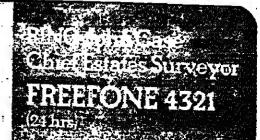
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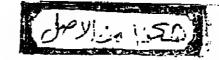
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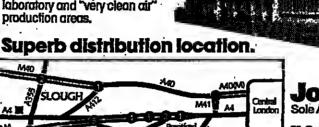
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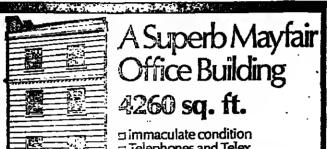
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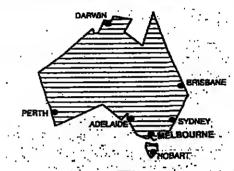


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### Cinema

Nigel Andrews

### Rollinver (AA) Warner West Pink Floyd The Wall (AA) Empire Firefox (AA) Warner West End Ritwik Ghatak National Film

Rollover, directed by Alan J. Pakula, begins by looking distinctly peculiar. Can that Iruly be Jane Fonda, yesterday's be-denimmed radical, dripping in jewels and cleoching her enamelled cheekhones as an exfilm star turned chemicals com-pany tycoon? And can that be Kristofferson, deepthroated son of the backwoods, as a suit-and-tied bankers and top Wall Street troubleshnoter?

It is, they are, and miraculous-to-say nearly all the curious gambles—of casting and subject—in this high-finance thriller pay off. This is easily the best of the four movies-with-a-message that Jane Fonda has delivered under the banner of her own production company. (The others were Coming Home. The China Syndrome and Nine To Five.) Rollover purports to shake a stern finger at the shaky structure of world finance: the vast skyscrapers of Western wealth built on the shifting sandstone of the petrodellar. What, the film urges us to inquire, would happen if Arabs by the casis-ful suddenly wito-draw their oil-earned billions from American hanks rather than letting the money 'roll over" into the next, and then the

next, fixed-interest period? Director Pakula. who wrapped Klute and The Parollar View in majestic sharows of conspiracy. unease, has created a New York of wonderful dark opulence and doomed bustle; as widow Fonda, stepping into the size 12 boots of her murdered chemicals-boss husband, wonders should-she-shouldn't-she stake her majority sharehold as security for a company-saving loan of \$500m from a wealthy but prolixly wheeler-dealing Sheikh.

Kris Kristofferson will help Ms Fonda make her deal, will suss out the suspect Sheikh, and will also find out why Fonda's spouse was murdered; darkly clobbered in his office one night by a atocking-masked hitperson as he pored over an Arab transfer account.

Kristofferson will also of course, fall in love with Ms F., growling out dolce formicale over candlelit dinoers, twinkling his cavern eyes, and sweeping her off her Gucci-clad heels in her palatial lown-house, where sumptuous fur rugs lap at the feet of costly Frank Stella paint-

ings. Preposterousness limns these scenes of high romance lo high-expense settings. But steepling and vertiginous flamboyance is part of the purpose of this parable about money and its meaning. Paper-currency economies, say Pakula and his

### The buck stops here scriptwriter David Shaber, are and-radical red, but a subtle and blood, turmoil, hypodermics, ornate houses-of-cards whose nuanced pink: a handsome. Oedinal mothers—that like Pink compellingly ambiguous film,

pinnacles have long last sight of the ground beocath them and whose fragility risks everimmineot collapse. The film weaves a deft and hrilliant visual to-and-fro between the eyried abstraction of sky scraper-top offices—all lunging. glassy verticals in grey, black, silver—and ground or sea-level sccoes where a figurative earthly warmth creeps in: to remind us of the real roots, in sea-trade and hunting, from which the tree of American high-finance grew. A gala dinner-dance in the Natural History Museum, surrouoded hy glassed-in walruses and polar bears stuffed-rampant; prints of old Manhattan, its wharfs and sailing ships, on Wall Street

The slory rattles resonantly along down momentous mainlines, aloog Byzantine detours and through tenebrous tunnels to a neatly apocalyptic ending. where Armageddon is not a smoking battlefield of slain bodies but a sepulchral, deserted Stock Exchange where shrouded consoles and videocomputers sit in Doomsday

walls.

poised between censure of the system and anxiety at the consequences of its too-sudden overthrnw.

When rock-concert albums are made into movies, they usually result in terminally lopsided sense-experiences. The eardrums are left in a state of blitzed satiety and exhaustion, while the eyes are under-whelmed and undernourished. Not so with Pink Floyd The Woll. Director Alan Parker has soundtracked the Floyd's songcycle in seat-shaking stereo, but for once images of matching bravura assault the screen.

This non-narrative film collage is Stream of Consciousness movie-style. Unlike his Shoot The Moon, where staccato pyrotechnics were shelved for a legoto domestic drama. The Woll leaps forth from the Parker who made Midnight Ezpress and Fame: the ex-commer-cials tounderkind who blithely pasted you in the eye with bold. brassy and skimpily intercon-nected images.

The film is a knock-on what-For a film starring and continuous financed by the redoubtable hattle, a punk-fascist rock conditions. Soldiers in the most that the most hattle, a punk-fascist rock conditions for the most the most financed by the redoubtable hattle, a punk-fascist rock conditions. The Mec devastating killing machine ever hidden in the most finance the soldiers in the most fin

Floyd's own music flies fearfully close to adolescent sturm und armng but somehow keeps its poetic wings airborne and vigorous.

Here on band is Bob (Boom-town Rats) Geldof, with a face like a morose rubber-tyre, as
"Pink"; the film's war-baby
hero whose growing-up and
ideological pilgrim's-progress—
through pacifism and hippyism and militarism and puok— parallels the postwar life-story of Britain. Here is a battalion of white-masked schoolchildren whom Parker marches through eerie tunnels of dazzling light. or processes along a giant con-reyor-belt into a giant mincer. Here is a frightening trompe l'ocil transition between liveaction and animation, when a life-size human shadow on a wall rears up into a shape huge, devouring and serpentine. Here and elsewhere, this is one of those rare films where the hand-holds of a firm plotline are never missed and movie-making virtuosity is its own reward.

In Firefox Clint Eastwood dons a moustache and spectacles and wreathes himself in shadows in order to infiltrate the Soviet

which is operated by the pilot's thought waves, flies at radardefying velocity, and puts all other advanced 20th century military hardware in the sbade. There is only one problem. be is briefed by earnest and helpful Russian fifth-columnist Nigel Hawthnrne; "You have to think in Russian."

Undeterred, and certainly unhurried (the film lasts a full, feeling 21 bours), our strongsilent hero moves through the land engaging with a relay-force of British actors caught in the grip of free-floating foreign accents, and finally takes the much fussed-over vehicle to the skies. The finale is a fine kalcidoscope of aerial pursuits. sky-high gymnastics and stut-tering, flame-throwing warfare. But it arrives painfully late in a film that is elsewhere more like a forced yomp across soggy and underlit B-movie terrain. Alex Lasker and Wendell Wellman wrote the script, from Craig Thomas's novel Eastwood himself directed.

Opening at the National Film Theatre next week is a season of films by the gifted Indian director Ritwik Ghatak. This teller of gaunt tales staged wifh a high-volt power was a contem-porary of Satyajit Ray and an Expressionist Tweedledum to Ray's serenely neo-realist Tweedledee. The NFT season includes his two hest films— The Mechanical Man and The Hidden Stor-and is a timely tribute to a true and striking



' We Don't Need No Education ' scene from Pink Flloyd The Wall

### Makarova in Onegin/Munich

Clement Crisp

The two poles between which five curtain calls after the first the action of John Cranko's act - must lie in a Russian's Onegin swings are the "letter" understanding and reverence duets that end the first and When this Tatyana sits to third acts. One is a mirror write her letter (which serves image of the other - the first in the hallet to introduce a celebrating Tatyana's effusion dream wherein she summons of romantic feeling for Onegin: up ber Idealised view of Onegin) we know that she the second her rejection, as a hears Pushkin's words, dashes mature woman, of Onegin's no them impeluously on to pager. less romantic avowal of a love and with girlish indecision which he acknowledges after crumples her first draft and ten years of wanderiog. As starts again. The succeeding part of the Munich Opera pas de deux shows Tatyana's part of the Munich Opera Festival the resident ballet ardent impginings made real; company has just presented rarely has dancing seemed two performances of Oneoin mure cestatic or more youthwith Makarova as Tatyaoa and fully fresh then when Makarova Peter Breuer as Onegin, In the Sunt horself into Breuer's second, on Tuesday night, arms and was held radiant Makarova's art was never more high above his head in the astounding in communicative elimatetic lift of the duct. The beauty or lyric warmin than in mashificent stretch of limbs, these two pas de deux. Part of the juyous curve of the hody. the secret of this portrait - told everything of Talvana's tumultuously received, with character, of Pushkin's heroine,

Makarova's Tatvana is a mr! caught up in the idea of class ber shoulder, gazing after romance, finding in Onegin a Onegin's fleeing figure when conflict between lingering focus for ber passion, and the duel has taken place, is emotion for Onegin and her transformed thereby — we see also watching the end of genuine love for Gremlo, find this is ber eddying backward exit on point from the garden. like an indrawn breath of delight. The eagerly expectant creature at Mme Larina's bail. which starts Act 2, her eyes always on Onegin to discover his response to ber letter, and the distraught and rejected figure who must toy and dance with Prince Gremin, are sketched by Makarova with vivid simplicity. Tairana's quick emotions burn through the dance and through the dancer's hody, and burn away her innocence. Her desire to reconcile the quarrelling Lensky and Onegin, to bring Olga back to her fiance, are an attempt to reassert ar earlier, happier order in her world: Makarova standing mgid, az-

arm crossed over ber breast to Tatyana's youth.

young Tatyana with the mature Onesin returns. After her loving farewell to Gremin there letter scene when she sits nerher feeling for him and still finding strength to reject that feeling, was a superlative dis-

this is no less important, a Princess in Act 3 to whom Russian artist asserting certain side these major projects, there loving farcwell to Gremin there comes a clear echo of the earl; speaks Tatyana's language. Peter Breuer's Onegin, as I | Stoppard, Beckett and Osborne.

pulses of her movement, the

ibe urgent in

rously reading Onegin's im- have indicated is a serious. Very little of this latter passioned note to her. The committed interpretation and a ensuing duet, her body now magnificent support for Makamagnificent support for Maka-! purpose at all beyond furtherembrace, lysting and turning. Barbay and Peter Jolesch, as gullible American students or yet suddenly acknowledging Olga, Lensky and Gremin, give proffering short cuts for lazy rova: Louise Lester. Ferenc ing the author's career among Olga. Lensky and Gremin, give proffering short cuts for lazy well-rounded interpretations.
The Munich company's account of the work is sound, especially tome sails a little close to the play of a dancer's art (and, pleasing in buoyant group wind at times, but is generally from Peter Breuer, of sense dances to which they bring a most welcome cut above the generous physical involvement. general second-rate clamour.

### Der Rosenkavalier/Glyndebourne

David Murray ....

anxious excitement: very

Class-consciousness is gone from this Rosenkavalier: Erte's designs impose a democracy of Marschallin's powder-puff bedroom and morning salon (two scenes bere, not nue), newly rich Faninal's Studepulois and the ill of ill repute there are no gynous vision, not to be resisted of Simon Rattle's conducting, a differences of history or estate, Rachel Yakar's Marschallin shall just add that I do not but merely of tint and trim, is less a great lady (which remember the awkward third that it is less a great lady (which remember the awkward third remembe Newcomers will miss a dimension of the opera, then; yet in the circumstances everybody does wonders with it — and not by taking the easy farcical option, but by making it serious bourgenis comedy. Which suits the new Glyndebourne very

In John Cox's production (renearsed by Robert Carsen) three of the 1980 principals have returned to their original rules. The original Sophie, rnies. Krisztina Laki, is ill, but admirahly replaced by Deborah Rees. If a highter touch of silver in the voice might be wished, she is secure and true,

touching, and still strong enough to rise cleanly to ber great moments. Felicity Lott remains the Octavian, a golden androwould hardly suit the setting) than a well-to-do bostess who has a useful line in hauteur for settling the Act 3 imbroglio. Plenty of warmth and sensi-bility, a bint of weary matronbood; ber monningues are not on a Shakespearean scale, but gently, sadly reflective. In the light conversational singing

that Der Rosenkovolier raises to a special art, Miss Yakar excels all her colleagues-though she leads the Trio In fine, im-passioned style. Dunald Gramm's Ochs is neither backwoods aristocrat nor comic oaf. hut an interesting eccentric: a touch of Parolles, even a tinge

shaping her long phrases ex- of Don John. He doesn't quisitely. She suggests tremu-lons gaucheness, hullow-eyed orchestral music, but his singing is silky and immersely refined. Denied a proper final rout by Mr Cox, he carries the part oo sheer intelligence.
To Rozald Criebtun's praise

of Simon Rattle's conducting. I remember the awkward third act so brilliantly-even ruthlessly-kept going, to its enormous benefit. actually erases the traditional chorale-pauses in the line of the final duet, boldly and success-Наштопоfully.) Stroud's Faninal has acquired benevolence but lost same edge: as the pair of intriguers, the excellent John Fryst and Nucci Condo Andrew Gallacher makes a confident impression as the Police Inspector, and Nicholas Buxton made me notice for the first time the First Lackey's few lines in Act 2, sung heautifully

### Medici Plus/Fishmonger's Hall

**Dominic Gill** 

visited Fishmongers' Hall on Wednesday: an imposing Vic-torian edifice stranded hard by London Bridge on the north hank of the Thames. There is just one substantial compensation for the fact that the main hall, packed with people on a summer's warm quickly becomes as hot and humld as a Turkish bath—for it also has one of the clearest and warmest chamber-music acoustics of any hall in

The Fishmongers should open it to recitals in the winter.

The City of London Festival stringed, the Medici Quartet isited Fishmongers' Hall on were slow to cool at the start of their programme last night, with a performance of Haydn's D major op.76 no. 5 that was decent, uniamhoyant, and definitely wilting. It was not really until the andante of the G major K387, the first of Mozart's "Haydo" quartets, freshened by a momentarily opened window, that the players could truly come to grips with their music; and there, against all the odds, their

> deftly sprung. slippery- interval by Peter Frankl (re- summer night.

finale was a delight, quick and

placing a still indisposed Clifford Curzon) for the plane a still indisposed quintet of Dvorak. By now sufficiently acclimatised, the five delivered an admirably energetic performance of the tailchasing first increment, and with great charm the much more inventive second.

Somewhere in the swelter. I lost track of the scherzo; hut the finale, wound up with infectious hrio, commanded attention by its very aptness—the sort of jolly, inconsequentially tuneful stuff that Dyorak could spio off They were joined after the asleep or awake, on the hottest

### Maybe This Time/New End

Michael Coveney

The author of this new land's neat design places us in former estate agent bent on exposing the alleged scandal of and Lucy rattle on for over
the marriage half-an-hour before a rather unchent breaks little of the pot and the kettle. But my resistance to the show is not a moral one. Indeed, the best of the play is the sharp focus it lends to personal relationships foundering on the rocks of professional expedi-

ency.

The trouble is that the preparation of the dramatic dilemma, such as it is, is pain-fully over-extended and not very interesting. Martin Suther-

convincing client breaks through the door. Each lady has certain extent, are subsumed in terns the daily business of other peoples affairs.

This interminable chit chat, uncoloured by any effective attempt at characterisation, kills the evening stone dead and there is nothing to be done by either Judy Carne or Lynette Davies, as the partners in crime, to alleviate the tedium.

The show exerts a grip only with the intrusion of Tim Hardy as Lucy's husband, when very recognisable themes of job demands versus domestic duty are airily despatched in Mr Hardy's bottled anger and her own problems which, to a ironically deflected speech pat-

> But all falls to pieces once more when Miss Carne's exhusband turns up with some pathetic mumbo jumbo that implicates both Bernard Levin and Sociates in a despairing farewell of "tempus fugit as usual." The director of a trying and over-long evening is Peter Stevenson.

### Book Review **Michael Coveney**

An Introduction to 50 Modern British Plays by Benedict . Nightingale. Pan Books, £2.95, 479 pages.

national qualities that lie at the is the ceaseless ebb and flow of heart of the role. Makaroya small study and academic exegsis on figures like Pinter,

> phenomenon seems to serve any teachers and O-level crammers. Benedict Nightingale's bandy

incis recent years have tended to receives a pocket essay before offer thorough documentation, in one or more of his plays is genuine love for Gremlo, find a lively style, of major move examined in some detail. rhythmed banality and subver-most eloquent expression in ments. Such has been the Nightingale never resorts to the sive, but simple, philosophy. It is a particular merit of every bend and spiralling turn Makarova's interpretation that she can make clear those great dancer entirely in symcorrespondences which link the pathy with a role; we see, and Stage Company and Sally ship and his own extensive and dullards. Irving Wardle on the English reference to others' scholar pulsory reading for all knockers. Stage Company and Sally ship and his own extensive and dullards.

Beauman on the RSC. Along-experience as a theatregoer and . The choice of playwright

> Statesman since 1968). Everyone from Shaw to Stoppard, Brighouse to Storey. O'Casey to Brenton, is sub-jected to the same lively treatsay I feel that Nightingale has pages around him. But here you can read him expatiating sensibly on Maugham, R. C.

He covers the 20th century from James Barrie's The Admir-able Crichton (1902) to Trevor Griffiths' Comedians (1975) with scale critical reappraisal of the The best theatre hooks of and critical rigour. Each anthor for flippancy, but is deadly, and brilliantly, serious on Coward's deployment of

> critic (he has been on the New wavers a little towards the end. Room should bave been made for David Hare and Peter Nichols, and I reckon that What the Butler Som should have been ment. On the Statesman, I must prefered to Lcot in the Orton section, while a case could be somewhat unhappily cramped made for excluding Christopher his style of late to suit the Fry and Robert Bolt altogether. recently withered, hadly written But Nichtingale is alive to the inevitable invidiousnes of his selection, and tempers all his Sherriff and Rattigan without choices, and indeed bis argu-fear of editorial ridicule. choices, and indeed bis argu-ments, with humility and good Indeed, his 20 pages on Noel humour.

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### F.T. CROSSWORD PUZZLE No. 4,924 ACROSS

1 V-sign shows one is not ln agreement! (6) 4 Record turnover? (4-4) 9 Adopt a new attitude in

sleep (6) 10 Rows about stray dogs (8) 12 Blissfully unaware (8) 13 Hamlet has to he re-written

for her (6) 15 Not the final temperature

16 Granted by letter (10) 19 Is hesitant when perplexed? Quite the contrary (10). 20 Wide smile gives support

23 Take cover (6) 25 Is he in no hurry to act? (8) 27 Colourful display of arms

28 A dynamic proposition (6)

 $(\frac{1}{4})$ 

29 Dons went berserk - rusticated (4, 4) 30 A speaker who is skilled at splitting alternatives (6)

DOWN I Film with a good finish (7) 2 In a sorry state? (9)

3 Possibly run and see to make certain (6) 5 Growth seen when ship's 21 Itinerant craftsman (7)

II Enraged by exchange of Solution to Puzzle No. 4,928

letters (7)

14 Irreverence shown by the little devil I have yet to reform (7) 17 The present perfect? (5.4)

18 Surprised to find the vehicle is carrying acid (8) 19 Gets off with a slight dislocation (7)

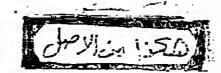
bottom is turned over (4)

6 Casb exchanged in pure account and blush (6)
monetary transaction (8)

7 Having no flaws, though I one (5)

26 Collect one's pay with a

minor rise (4).



## **FINANCIAL TIMES**

BRACKEN HOUSE: CANNON STREET, LONDON EC4P 4BY Telegrams, Finantimo, London PS4. Telex: 8954871 Telephone: 01-248 8000

Friday July 16 1982

# Shultz picks up the reins

Ronald Reagan's presidency. Mr Alexander Haig was widely regarded on this side of the figure in the U.S. administra-tion who was sympathetic to sure on the Soviet Union the concerns of Western Europe through the embargo on comand ready to stand up for them in the inter-departmental arguments in Washington. In some very important respects, this was not an ill-founded jndg-ment; if it had not been for Mr Haig, for example, it is not at all certain that the U.S. would now be engaged in negotiations with the Soviet Union both on intermediate-range and on strategic nuclear weapons. What time to sink in, on the other hand, was that he pur-sued certain other policies—the almost unconditional support for the Begio Government io for example—which, less advisable to Europe, and that his style was disruptive of steady foreign

The style of Mr George Shultz, who has received the unanimous recommendation of the Senate foreign relations committee to take over as Secretary of State, will almost certainly be less combative. He has long experience of government under previous administrations, at the Department of Labour and at the Treasury, and he has a well-established reputation as a team player. In his opening testimony to the Senate be repeatedly stressed that be would be carrying out Presideot Reagan'a foreign policy, whereas Mr Haig had too often given the Impression that he was trying to carry out his own foreign policy.

### Significant

Mr Shultz's past experience may bave lain primarily in the fields of economics and business, rather than in that of foreign to the committee is witness of a positions, but also of sprinkling it with subtle and possibly significant glosses of his own.

He certainly inherits a formid-

FOR THE first 18 months of Mr has alarmed European opinion, through its emphasis on rearmament and nuclear strategy. More recently it has angered Atlantic as the only major European governments by the ponents for the gas pipeline.

It is too early to say how Mr Shultr's appointment will influence U.S. policy on East-West relations—his assertion that the U.S. was prepared to establish mutually beneficial and safer relationships with the Soviet Union on the basis of reci-procity" is a formulation which leaves many questions un-answered. But it must be significant that he was prepared to say, before his confirmation, that "as a general proposition, the use of trade sauctions as an instrument of diplomacy is a bad idea."

But the most urgent problem facing American diplomacy is the crisis in the Middle East, in which the U.S. is already, as ao often in the past, actively engaged as negotiator and gobetween. Much of his Senate testimony was concentrated on this issue, and the flavour of it seemed much more even-handed as between the interests of the Israelis and the Arabs than perhaps might have been expected from Mr Haig.

### New emphasis

There was no suggestion of any weakening of American support for the security of Israel, which be described as "our closest friend in the Middle East." But his refer-But his refermiddle East." But his refer-ences to the legitimate needs of the Palestinian people, and the right of representatives of the Palestinians to take part in a negotiating process, while not inherently divergent from previous American orthodoxy, certainly seemed to give new emphasis to this aspect of the Arab-Israeli conflict. He gave policy proper; but his statement no support to the notion of military solutions in the Lebanon; mature mind, capable not "We cannot accept the loss of merely of giving a loyal account of the President's foreign policy day on our television screens."

Moreover, AEG's spread of geographic markets neatly com-The European Community has British company's presence in long argued the case of the continental Europe is suprisrights of the Palestinian people; ingly modest for a group of its size. Its sales there last year but while Europe has had an totalled £750m, less than oneable array of problems, in rela- objective, it has lacked both a tion both to the Soviet Union strategy and the means of carry sixth of its £4.95bn turnover. and to America's allies in ing one ont. The U.S. bas the Only a third of the £750m was Western Europe. The Reagan means: it is now up to Mr accounted for by local sub-administration has tended to Sbullz to see whether these sidiaries on the Continent. adopt a confrontation stance means can effectively be used to towards Moscow which at times defuse the crisis in Lebanon. and does good business in a number of Commonwealth countries and former Brilish

# Covert protection, back-door subsidy

ported to be prepariog a new were, for the Government's issue, as it were, of enterprise ideas of economic husbandry. zones, in which exemptions from taxes, rates and regulation will be offered to tempt the hesitant This does at least show an urgent concern for the plight of some of the most run-down parts of the country. However, when taken together with other current policies - the tax coocessions to the oil companies which have provoked a lawsuit from ICI, and the protracted bargaining with Nissan - it also suggests a disturbing blind spot io the Government's thinking.

The central ideas in the Government's cconomle philosophy are the virtues of irce decision subject to market discipline, and the dire economic effect of high public spending. The Government also seems positively enthusiastic to encourage particular activi-ties; yet these are market distortions, achieved by a looking glass version of higher public Decline spending.

There are a number of insidiolusly appealing arguments for these breaches of principle. One is that we must keep np with the Schmidts and Duponts (not to mention the Watanabes and the O'Kellys). Since all countries woo multinational capital with special iocentives, we must join in, or we will see

### Favourable

Most regrettably, this is in some senses true; and a similar logic leads to other counterproductive policies. It is openly urged that British industry must have access to energy and feedstocks, steel and credit on terms as favourable as any of its compelitors. More quietly, civil servants are reminded "whose side they are on" in the unsung trade war of red tape, technical specifications and other nontariff barriers.

The case for enterprise zones is more seductive, for these recent cooseosus on export cones are not only supposed to contribute to regional revival, examples.

THE GOVERNMENT is re- but to act as model farms, as it See, the Chancellor agrees, bow enterprise flourishes where tax burdens and bureancracy are

### Resources

There are a oumber of arguments which need to be restated agaiost this whole approach. In the most general sense, the case for free trade and market discipline has never rested on any assumption of universal virtue. Countries which do not distorn locentives generally make more effective use of their resources than those which over-ride

It is true some Governments—notably the Japanese—do seem to have bad some success in using a mixture of iocentive and protection to encourage the growth of the industries of the future, but that is not bow the game is usually played.

It must also be remembered that any covert protection or subsidy for a particular project hurts not only its foreign competitors, but its established competitors at home. That is why ICl is suing the Government, and why, more generally. the growth of state-backed large-scale industry in Italy has been mirrored by the decline of the large Italian private enterprise corporation. Only the hlack economy, it seems, can flourish in the sbadow of state 'incentives.'

This points to a final moral: total escape from tax works just as well as exemption. To abolish what remains of corporation tax in this country would cost less than £3bnfraction of the cost of various special incentives; but this general incentive would remove distortions, aod save a fortune in administration.

Covert protectionism is best fought by opposing it, as in the

### THE AEG REORGANISATION

# What GEC could offer

By Guy de Jonquieres in London and Kevin Done in Frankfurt

HOW THE TWO COMPANIES COMPARE

AEGTelefunken

(estimated figures for year to March 31, 1982)

Turnover £4,950 UK sales £2,525m

DRITAIN'S GENERAL Elec-

in any attempt at a private sec-tor solution to the financial crisis facing West Germany's beleaguered electrical giant

AEG-Telefunken, its banks and,

increasingly, the Bonn Govern-

Exactly what has been dis-

cussed in the past few weeks by Lord Weinstock, managing dir-

ector of GEC and Herr Heinz

Durr, chief executive of AEG,

only the two men can know for

But while other possible bidders have bean rumoured— United Technologies of the U.S.

is frequently mentioned—only

GEC appears to have placed out-

company to be formed after a

planned reorganisation of the

German group. AEG-Technik,

which would bave sales next

vear of about DM 11bn (£2.4bn),

would combine AEG's most

viable businesses, capital goods,

electronics and high technology products. GEC would pay DM 300m for its stake in AEG-

Technik's initial capital and provide a further DM 450m in

nterest-free subordinated loans.

The plan still faces many burdles. Herr Dürr is seeking

DM 1.55bn as part of the deal, and the distribution of AEG-

Telefunken's massive DM 5bn

debt after the planned reorgani-

sation has yet to be decided. Herr Dürr must also win

approval from a rejuctant work-

if GEC is brought in.

force, which fears for its jobs

Nor would the reorganisation

resolve by itself AEG-Telefun-

ken's two biggest problems, its consumer electronics and

which would be hived off into

separate companies. Prospects

for curbing the beavy losses

from both operations look bleak

unless they undergo extensive

surgery.

If a link were forged with GEC, AEG-Technik would bene-

fit from an immediate capital

infusion from a well-managed,

financially strong partner with liquid assets of more than £1bn.

the black this year.

lements GEC's own.

zones of influence. It has also looked principally to the U.S. for its recent foreign acquisi-tions, notably A. B. Dick, the

office products manufacturer, and the Picker medical elec-

domestic appliances busines

loan guarantees

line proposals on the table. It is considering acquiring 40 per cent of AEG-Technik, a new

tric Company has clearly

emerged as a key element

Profits £584m (before

tax) £365m (after tax)

Turnover DM 14.8bn (£3.25bn)

West German Sales DM 8.4bn (£1.84bn)

(figures for year to December 31, 1981) Profits -DM 642m (-£141m) (after tax and before extraordinary items of +DM 666m

(£146m)

### SALES ABROAD 1981 **AFRICA** AEG Total Sales £1,405 m australia **AMERICAS** EUROPE

### Business groupings in the UK

POWER ENGINEERING: Turnover £589m. Pre-tax profit: £59m. Main activities: Turbine generators, formers, rectifiers, ducts and plastics.

GEC

Total Sales £2,425m

INDUSTRIAL: Turnover: £359m. Pre-tax profit: £44m. Main activities: Industrial and marine diesel engines, large and small electric motors, gears, illuminated signs, ventilation products. ELECTRONICS, AUTOMATION TELECOMMUNICATIONS: Turnover: :£1.4bn. Pre-tax profit £210m.

Main activities:

Marconi companies: Avionics, civil and military communications, communications, radar satellite space and defence systems, instruents, broadcasting equipment. Electronics and automation: Railway signalling equipment, traffic entrol systems, minicomputers dustrial and numerical controls

GEC would gain a substantial nications; Switching stake in a capital goods business with an array of technological and transmission equipment, office products. expertise which, according to Herr Dürr, will move back into

has

depended beavily on its home

market and has a solid share of

key public sector purchases of

equipment for defence, posts

and telecommunications and the railways. Like GEC, it is

the largest supplier of electronic

equipment to its national

defence ministry, and in certain

military areas it has almost no

serious domestic competitors.

and radio systems group is

gramme to equip the German

is involved in the Tornado

fighter and Leopard II bsttle

tank projects.

AEC

robots, mechanical handling, medical

traditionally

COMPONENTS, CABLES AND WIRE: Turnover £441m. Pre-tax profit: £43m. Main activities: Valves, micro power and communication wire, fusegear, heating element when rusegear, macing clements, electrical switchgear.
CONSUMER PRODUCTS: Turnover: £277m. Pre-tax profits: £11mm.
Main activities: Lighting, television

acture, domestic appliances, kitchen furniture. OVERSEAS SUBSIDIARIES EUROPE: Turnover: £225m, Pre-tax profit: £12m Activities include: electrical instal-

lation materials, industrial ponents, diesel engines. THE AMERICAS: Turnover: £750m. Pre-tax profit £12m. Activities include: A. B. Dick (office products), Picker. AUSTRALASIA: Turnover: £175m. Pre-tax profit £15m. ASIA: Turnover, £150m. Pre-tax profit: £15m. AFRICA: Sales: £25m. Pre-tax profit: £5m.

AEG'a foreign operations are concentrated particularly in the rest of Europe and in South America, and it has a number of local subsidiaries in both regions. It has also won export orders for a wide range of electronics products and industrial plant from the Middle East and South East Asia.

However, the two companies' product lines are remarkably such as telecommunications,

None the less, there seems to be a potential for some useful collaboration at the margins. AEG is proud of its solar power:

AEG—Technik (as it would emerge from planned reorganisation of AEG-Telefunken)
Turnover, year to Dec. 31, 1981: DM 10bn (£2.12bn)
Estimated loss: DM 170m (£37.3m)

### Business groupings worldwide

turnover: DM 5.9 bn (£1.29bn).

• Energy , Technology: Power electrical switchgear, motors and erators. Industrial Technology: Industrial and marine automation systems.

heating controls.

Traffic Systems: Defence Technology: Radar and radio communications, monitoring and reconnaissance equ

COMMUNICATIONS SYSTEMS Turnover: DM 834m (£185m)

Telecommunication Technology: Telecommunications and satellite equipment, remote monitoring

GEC is not deeply involved, while the German group cannot match GEC's recently expanded activities in robotics and medi-

cal electronics.

There is scope no doubt for

### POWER ENGINEERING AND INDUSTRIAL SYSTEMS: Worldwide devices, radio telephones. Information Systems: Factory and

office automation, data networks, nagement systems, data als, letter sorting systems. ATM Computer: Joint small computer venture owned 75 per cent by AEG-Telefunken and 25 per cent by Modcomp of the U.S. STANDARD PRODUCTS: Turnover

DM 2.2bn (£480m)

● Electronic Components: Microelectronic devices, semi-conductor ● AEG-Kabel: Power and co

cation cables, optical fibres. OFFICE EQUIPMENT: Turnover: electronics, low voltage switchgear, DM 1.1bn (£240m) electric motors. Consists of Olympia Werke.

AEG's interest reduced from 100 per cent to 51 per cent last year as part of deal in which Bosch and banks. acquired 49 per cent. Olympia makes typewriters, word pro-cessors, small computers.

gained effective control, undertake a radical pruning of businesses in which AEG would fare worst

technology, a field in which interested in moving in on acquisitions. Though the pro- £5bn.

posed arrangements would un-doubtedly give it a major say in AEG's affairs, GEC is said to bave proposed initially taking an equity stake of less than 40 per cent.

Those who have talked privately with Lord Weinstock have come away convinced that GEC wants to make a long-term commitment in Germany, not a lightning asset stripping raid. He is reported to want Herr Dirt to remain in charge of AEG's future management describing him as a partner and his own prospective role as that of advisor. Herr Dürr has also

genuinely a German company. It is certain that the talks between the two companies could not have progressed this far if the two men did not share aimilar management philo-sophies and mutual respect. Herr Durr has expressed public admiration for the way in which Lord Weinstock has transformed an assortment of previously troubled companies into a highly profitable group.

insisted that there is no ques-tion of AEG ceasing to be

In essence Lord Weinstock's formula has been to operate GEC as a "federal" company. He has devolved to its divisions and subsidiaries responsibility for operational decisions, such ss product development and marketing while subjecting them to a system of rigorous financial control.

AEG-Telefunken, by contrast has long had an extremely centralised management struc-ture, which critics blame for making it slow-moving and unresponsive. Its headquarters in Frankfurt employs 1,200 central staff, while GEC has only about 100 at its head office. From his own statements, it

appears clear that Herr Durr is looking to GEC not just for money, but also as a source of management experience and upport as he strives to mould AEG's bedraggled empire into a sound and profitable business.

GEC has a unique combination of banking and industrial management skills," says Mr Ian Cole of London stockbrokers James Capei. "It can play a role not dissimilar to that which the large German commercial banks have traditionally played in directing the more successful parts of German industry." The challenges remain for-

midable and could take some years to overcome. GEC's ex-AEG's markets and would, if it perience with some recent take-overs has not been entirely trouble free, and it has yet to bring the performance of acqui-By all accounts, Lord Wein sicions such as A. B. Dick and valuable exchanges in defence stock's meeting with the unions. Avery's up to the same stantechnology, while both comin Germany last weekend did dard as the rest of its activities, panies could gain from a closer not remove these suspicions; all But AEG-Technik, stripped of association in conventional the less so since he refused to the loss-making consumer and power stations which would give any guarantees about appliance operations, would strengthen them in interna future job security or his influ-possess a wortfolio of businesses Its bighly profitable radar similar, ranging from the tional competition against ence on AEG management in areas which have proven GEC is, bowever, strongly and radio systems group is "heavy" end—gas turbines and beavyweights such as Slemens— policy.

highly profitable for GEC. If represented in North America prime contractor in a pro-industrial equipment—to areas Kraftwerk Union of Germany. But there are grounds for the application of management Navy with a new class of 20 fast office systems and process conland.

Navy with a new class of 20 fast office systems and process conland.

The marine to division is responsible for the weapons guidance system of the current of the depretation of microelecture of the depretation of microelecture of the current of the cu and Brown-Boveri of Switzer- believing that GEC's intentions attention could raise its marcompanies product lines. They from the outset, a clear break resuly valued on the London are worried that GEC is mostly with its approach to previous Stock Exchange at more than

# Men & Matters

### Account ends As if Aslef's activity-or lack

tronics company.

of li-were not bad enough I now understand that the Stock Exchange is trying to call a stop to the market's gravy train. Stockbrokers and jobbers have been told by the Council that members may only undertake "normal and reasonable expenditure in relation to entertaincourse of business." In cases of difficulty, further guidance should be obtained from the membership depart-

ment, it says.

This will strike a chill in the offices of pension fund managers and investment managers. For that innocuous notice could upset their lives more than Ray Buckton.

Fund managers have grown accustomed to the bospitality of hrokers—who are chasing other people's money which the fund managers look after-and will obviously now have to lower their expectations.

Seats at Glyndebourne, Wimbledon, dinner at the Mirabelle. a Cowes weekend, s hox at Covent Garden and the other little luxuries they bave come to expect may continue.

But the Exchange does not like giving away its services. It prefers money flowing in its direction. Realistic fees, says the Exchange, must be supplied on certain matters outside investment counselling. So if you are a fund manager looking for a second bome in the Balearics do not ask your broker. He may merely invite you out to Tubby Isaac's to talk about it.

### Super tramp

steamers any more. The to emanicipate drinking Welsh favoured circumlocution is nationalists, the EEC mandarine general cargo carrier. But it in a new ruling from Brussels does not have the same salty add the restriction that the in-

gill, the north-east coast ship-builder now part of British Shipbuilders, is not a man to be diversed by a fad. His SD-14 15,000 tooner is a modern tramp, he says. What is more it is a super-tramp trading successfully in every ocean and sea in

Austin and Pickersgill this week celebrates the launch of the 200th SD-14. That is a remarkable achievement in an industry in which production runs for merchant ship designs are usually reckoned in single After the redoubtable Liberty

ships — some 2,500 of which belped to win World War Two —the SD-14 is now the most popular vessel in the history of

popular vessel in the history of the steam ship.

Number 200, named Anisio Borges, is being built in Rio de Janeiro by the Brazilian ship-builder Companhia Comercio e Navegacao. She is the 37th in a run of 43 SD-14s being built Part of the success of the SD-

14 is that Austin and Pickersgilt has been licensing building round the world since the design left the drawing board 14 years ago. An SD-14 built overseas brings in only about £50,000 to Austin and Pickersgill in royalties compared with £7.3m for a complete ship built in Britain. But Kimber reckons that licensing has proved good business and will belp keep the marque in the forefront of world shipping for a good many years to come.

### No wine bars

The Welsh language can be Super tramp

used for all or any of the information on a wine label from next week. Having gone so far Derek Kimber, the burly also appear in one of the official

Welsh it must be a great relief to the rest of us. Are we then to be treated to

Welsh Claret blas ffrwythog llawn—that is, full of fruity flavour? The Welsb Office does not think so. No Weish wine industry exists it reported last night after research. But Walsb friends report sightings of isolated wine cultivations while travelling the Principality. Perhaps even now an entrepreneur is tending the first truly Welsh

Meanwhila, a Cardiff wine merchant Paul Morgan who has heen astutely marketing a Ger-man bottled wine labelled solely in Welsh for non-inquisitive patriots will have to get some new labels printed.

### Leisure line

Amazing some of the things that people do in their spare time," says Nigel Powell, of Leisure Line. "We have ona Leisure Line customer looking for a python who says be already has a hoa constrictor. Another has a mediaeval lute for sale."

Powell, with fellow Birmingham University graduate Christopher Angust, and a £35,000 loan from Industrial and Commercial Finance Corporation set up Leisure Line in London's Hammersmith three months ago to provide a com-puterised quick sales service in second-hand leisure goods.

If you are bored with your latest pastime and want to Drawing upon more than 80 recoup some of the money you spent on equipment, you simply phone in the details, which are pany. Charges range, according to the value of the goods, from £5 to £25 for three months. Powell, whose father is

chairman of Austin and Pickers- Community languages as well. Minister of State for public White that might irritate the utilities and transport in Jamaica and whose grandfather was education minister in Malaysia, says: We have handled just about everything so far from a harp to a house-

The prospect of increased leisure time for us all ha says. is one that he looks forward to with growing optimism.

### Down market Scotch whisky, it seems,

is selling too cheaply. Tamizo Ishikawa head of the wine and spirits importers' association in Tokyo, says tha the price of a standard Scotch is now well below that of the Japanese brands. Because of imports by unaccredited agents bottles of Scotch are on sale, if my arithmetic is right, at be-tween £2.25 and £6.75 below the

losing face in Japan because it

recommended price.

But whereas you and I would rusb to take advantage of such offers, the Japanese in what is a traditional gift season, are shunning the stuff. What Japanese customer, says Ishikawa, would dream of offering someone a cut-price gift?

And even more pertinently, be asks of Scotland's distillers. what wholesaler or refailer is going to continue to carry stocks of spirits with such a minute profit margin?

### insurance cover:

years of experience, Lord Denning recently advised the Company Worshipful then fed into a computer for Actuaries: "I like to eat with regurgitating to prospective nice people; to drink with nice buyers when they ring the com- people; and to sleep with a

# AUTOMATE OR LIQUIDATE!

Strong words from the government (Industry Minister, Mr Kenneth Baker, 22382). And words which we at Remek heartily endorse. You might say that we have a vested interest in them, since we manufacture PAM—one of the few all British industrial robots. But that doesn't alter the harsh reality of the situation facing British industry. So what is PAM? The initials stand for Programmable Arm Manipulator, a versatile concept developed to fill that all important gap in manufacturing automation between simple pickand-place devices, and the more sophisticated — and expensive — robots.

In fact, PAM offers a performance for-price unmatched by imported designs. It is fully programmable, fast and accurate — with a positional

In fact, PAM offers a performance-for-price unmatched by imported designs. It is fully programmable, fast and accurate — with a positional repeatability of O.D. The — and operates within the same 'envelope' as the human arm. PAM is ideal for repetitive, monotonous or dangerous production tasks invoking a payfoad of up to 10 Kg, and will pay for itself in a very short itime. To facilitate installation, Remek also offers full production interfacing. PAM is backed by Remek's considerable experience and expertise, embracing most aspects of manufacturing automation across a wide industrial spectrum. Other Remek products include the cost-saving Flowmatic range of adhesive and liquid gasket dispensing machines, the adaptable Microprocessor Standard Control Package; and the ever-watchful System Hennes production monitoring network.

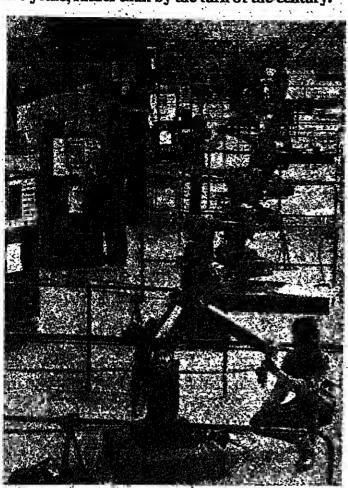
Hennes production monitoring network For more information about PAM or Remek's other activities, just write



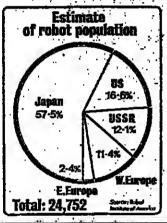


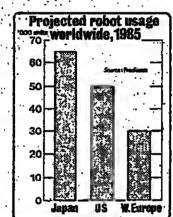
Barton Road, Water Eaton Industrial Estate, Blatchiev, Milton Keynes MK2 3HY. Telephone: Milton Keynes (1906) 649494. Telec 82467.

The pace of factory automation is quickening —some of the world's more foresighted manufacturers believe that the "unmanned factory of the future " could be a reality within five years, rather than by the turn of the century.



A line of robots being checked at ASEA, the giant Swedish industrial company, which has recently received orders from





# Manufacturing Automation

# A revolution on the factory floor

By ALAN CANE

THE FACE of manufacturing industry has been changed irrevocably in less than a decade by new techniques for automated production, based on relatively cheap computer power.

Machine tool manufacturers and their customers have been affected equally drastically. Machine tool makers in the U.S., the UK and in Europe have seen their markets threatened alarmingly as Yamazaki, Hitachi and Seiki, Nakamura and Fujitsu Fanuc. became commonplace words on machine shop floors. In the UK, Alfred Herbert, the distinguished flagship of the British machine tools industry, already hit badly by the recession, crashed in 1980 with losses of £56m.

chairman of a revamped and NCR, Sperry-Univac and a bost resuscitated Alfred Herbert, of other computer companies warned that the Japanese were "intent on wiping out our machine tool industry."

The evidence was hard to resist; 55 per cent of the numerically-controlled lathes in Britain were of Japanese origin. At the same time other

changes were taking place. An entire raft of companies which had never been part of the toolbusiness, suddenly sprang into prominence; these were the computer and electronics companies, skilled in the development of the hardware and the sophisticated software needed to drive the new

Thus, IBM emerged, last year as one of the U.S. leaders in computer-sided design and computer-aided manufacturing technology; at the end of the year IBM launched its first, small, but impressive robots. Instruments,

A year later, Mr Ron Lynch, Hewlett-Packard, Honeywell,

can reasonably claim that they

can supply a sizable part of the factory of the future." has been shaken by evidence from Japan, from Sweden and. to a lesser extent, from the U.S. and Germany, that production costs and manning levels can be reduced drastically using the new technologies. That is why, despite the

depressed state of the world manufacturing industry, the bigger-and more enlightenedmachine tool manufacturers are repressed excitement. They anticipate a world in which the typical manufacturing

matic machines, serviced robots and controlled Typically, such a "factory of the future" would be run from

the order book. An order from

plant will be staffed by auto-

customer would be stored in orders, the new systems will the main computer which would be successful." generate a request to the comdrawing office to

design the parts required.

It would direct automatic warebousing and palletising machinery to remove the necessary raw material from stock and instruct remotely-controlled trucks to deliver the raw materials to groups of computer-

controlled machine tools. Robots would move the parts through the machining process fore they were transferred to a fully automatic packaging and despatch line. Such a factory does not yet exist-but some

that do are close to the ideal.

Mr Frank Curtin: group vice
president, machine tools, for
Cincinnati Milacron, one of the
world's leading makers sums it up: "We are excited hecause the use of these new techniques offers the only opportunity for basis to become a high-quality, low-cost producer."

The Japanese, he pointed out, were moving low tecbnology production out Manufacturing industry itself countries with lower labour rates, while automating high technology production rapidly as possible.

Describing the present state of the U.S. macbine tool market. with considerable understatement, as "lousy," he went on to point out that the level of inpulries for automated manufacture at Cincinnati had never been higher; he had turing production-" most of

CONTINUED ON PAGE VIII

In Sweden. Mr Sven-Erik Andersson, managing director of SMT-Pullmax, a leading computer - controlled lathes manufacturer, argues that chief interest among potential customers is in more sophisticated systems, even if husioess is general manager of the industrial robot division of ASEA, the Swedish industrial giant, plans to grow by 60 per cent this year—"last year we sold 500 to 600 robots. Our target this year is 900 to 1,000."

A programmable welder-a combination of BOC welding equipment and a Hall Automation robot.

### Major step

And Mr Bjorn Weichbrodt,

50-60 per ceni down.

The revolution that has been taking place is of course based on microelectrooic technology. The factory of the future is, however, already here and now
—not in its most advanced
manifestation, but in applications which rule out any suggestions that the claimed benefits are not genuine.

Chief among these, production level can be kept high, inventories and stocks can be cut drastically, quality can be massively improved. Japanese bave sbown it can be done; now the rest of the manufacturing world is running to

catcb up. The ideas and concepts in advanced manufacturing systems of the kind now being installed are hardly new; what has made the difference over never seen so many senior the past few years is the avail-executives becoming involved ability of low cost, reliable and in the planning of manufac- sophisticated control mecha-turing production—"most of misms. The credit for popularthe early automated manufac- Ising these systems which rely turing systems were failures on computer numerical-con-because senior executives would trol lies with General Electric not get involved. When the of the U.S. and with Fujitsu recession lifts and these Fanuc, which could be desinquiries are translated into cribed as "the IBM of the

### IN THIS SURVEY

Technology: numerically-controlled (NC) and computer numerically-controlled systems (CNC) International developments: bow Japan and the U.S. stay ahead in the factory Japan: robot production and cost comparisons 11, 111 Computer-aided technologies: further rapid advances Flexible manufacturing systems: aiming for efficiency in small batches Case study: vehicle production in France Robotics: key devices on the production lines Applications: why robots are so effective User's case study: streamlined productivity VΪ The suppliers: overcoming the limitations VI U.S. ventures: rusb to wln market footbold  $v\pi$ Social implications: the impact of automation VIII BL case study: all change on the Metro line VIII

### n ior ivianulacturing Systems (KTM 760) (KTM CNC PRODUCT) CNC PRODUCT) CNC PRODUCTS (No machining centres) HAKRECTION PLC MULTI-HEADCHANGER (VICKERS MAXI CHECK) (KTM SPECIAL PRODUCTS) Feedback of inspection data to machine controls SPECIAL MACHINE Giver unlimited aspectly for KTH SPECIAL PRODUCTS) that can be incorporated into a system. multi-spindle drilling ensures consistent Boring station ensures topping, boring, etc. component quality. occuracy for ruch applications as cylinder blook and SPECIAL MACHINE IKTM SPECIAL PRODUCTS crank bearing bores. logio control (PLC) station for straight line milling.

CNC MULTI-HEADCHANGER (KIM CNO PRODUCTS) This introduces all the Plexibility of GNO multi-spindle machining. HANDLING SKITEMS OADING Manualar robot. As well as automated conveyor Roba car a cimilar intelligent devices

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### MANUFACTURING AUTOMATION II

## Ian Rodger on improvements in the application of NCs and CNCs in machine tools

Refinements in three separate markets

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by Male In Syker. Chairman, Dainichi-Syker Robotics

IT WOULD he dangerous to those are received from a up, operation, editing and This means using a high level screen and let the operator hunt suggest that the most important remote production control com- trouble shooting.

Conversational language that around for it. suggest that the most important remote production control comadvances in the application of numerical controllers and computer numerical controllers to

been accomplished.

attention is

ing systems.

machines themselves, notably

simpler programming langu-

ages, better diagnostic systems

and programming aids for NC

It has been 10 years since the first CNC lathes appeared and

for most of that time, com-

puter controllers have been applied mainly to large turn-

ing machines and machining centres. The sharp fall in the

cost of electronics in the past

two or three years bowever, has permitted the application

old ioanual machines. In most

the machine and altering its

emerged to the past few months

with a bolt-on CNC kit for

certain makes of lathes, for

small engloeering sub-

CNC kits

"I thought we'd be the most exciting newcomers to Central Lancashire"

since the Spinning Jenny."

Stand-alone machines with machine tools have already long production runs for which tape-fed numerical controller Compared to the incovations is adequate. of the past decade, develop-

In a tape-fed machine, the ments look like more refinemajor problem has always heen ments or value engineering. correcting errors after a tape Machine tool manufacturers' has been cut, there being no understandably alternative to going back to the drawn away from internal keyboard and making a new advances to the exciting things tape. The most popular solution has been to drop NC in favour. that can be done by putting their machines together with of the more flexible CNC robots, conveyors and patlet machines. But these are very expensive. Another solution is changers to make production cells and flexible manufacturto prepare the tape on a computer that has been pro-grammed to detect and signal errors. A recent example is the There are still some useful improvements, however, appearing on the NC and CNC

> carly this year. As the programmer enters geometric definitions or cutter motion commands on the IAPT, and provides an immediate indication of any corrections geometry or cutter motion on a plotter for verification.

> Avolding the rigidity of tapefed machines was the main attraction of attaching com-puter controllers in machine Initially, CNC systems attached to relatively simple lathes which operate in only two dimensions and theo to the more complex milling machines . and machining

centres. Now, the same process is being repeated with the development of conversational programming languages for CNC controllers. The first generation of these systems has been appearing on lathes and developments are following for milling machines as well.

The idea hehind conversational programming is that it becomes easy for even a relatively unskilled operator.to program a machine. Fanue of program a machine. Fanue of This problem traditionally leads Japan has led the field but to queues of work building up other major manufacturers are catching up quickly.

Take, for example, the recently introduced Acramatic user needs an on-machine controller that cao he programmed 900 series from Clncinnati Mila- to quickly and easily by an un-sophisticated operator to minicron of the U.S. All the material handling and storage onerator has to do is key in one systems that are computer confithe nine "menu" codes and trolled and can thus be easily @ Machines that are designed then the video display uolt leads Machines that are designed then the video display nolt leads changed from one sequence to to be part of larger production him in plain language messages another, mainly by altering the systems and for which instruct through procedures for setting

"Perhaps as a Yorkshireman

I was prejudiced, but Central

sound like a hot-bed of high

technology to me.
At least, that's what I thought

Lancashire didn't exactly

when my Group went into partner-

slup with the Japanese to produce

Central Lancashire New Town was

suggested as a location for our new

Quite frankly, I wondered

whether the place would still be mills,

I went up to Preston to see for myself.

The advance factory was the

The industrial estate looked just as prestigious. (That was important,

However, what impressed me

They meant we could be confi-

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mills and even more mills. And so

first surprise. It looked as though it

than the last one.

name but a few.

on our doorstep?

belonged to the next century, rather

because we could expect to be deal-

ing with international companies.)

most of all was the number of high

technology firms already in the area-

British Aerospace, Rockwell, Plessey, GEC and British Nuclear Fuels to

dent of finding the skilled workers and

specialist suppliers we'd be needing.

And they meant something

advanced industrial robots, and

Yamazaki Mazatrol of Japan puter rather than a local produces a lathe controller that automatically selects culting conditions, depending on the material being worked and the

tool used. General Electric of the U.S., which supplies controllers for a number of tool makers, is expected to introduce a conversational September.

GEC of Britain, which took over Alfred Herbert's CNC controller business wheo the venerable machine tool company went into liquidation in 1980, believes that controllers will have to be more adaptable in the future.

It believes that users will want machines that can be programmed by an on-site operator IAPT interactive system intro- of fed by a tape or attached to viously, a controller might just duced by University Computing a flexible manufacturing system. put the word "fault" on its subject of precise programming from the Japanese leaders.

conversational language that enables the user to add bis own programming modules to the controller. The penalty is the need for a larger memory than is common in CNC controllers but GEC believes memory cost

will continue to decline. The company has already introduced a controller of this kind for turning machines and plans to bring ant one for machining centres later this

### Identifying faults

Diagnostics are of major concern to users because they want most of all to avoid machine down time. The latest advances are along the lines of identifying problems. Pre-

Now, controllers can detect faults, decide how severe they are and choose appropriate Some are just responses. warnings, such as low oil pressure. In which case the controller would alert the operator but carry on working. In more serious cases, the machine would be shnt down and the screen would display a code that would lead the operator to

the source of the problem. Other recent developments that will appear increasingly on new machines include adaptive control and in-process gauging. Computer controllers are ideal for exploiting the wide variation in speeds that can be derived from DC momrs. Speeds

and depths of cut on

1.500

4,900

4,300

6,100

9,300

11,400

11,100

14,100

21,600

27,300

42,400

60.000

Strong efforts

petition through manufacturing

integrated computer controlled

system for producing aircraft components. This is claimed to have reduced investment re-quirements by 9 per cent and cut operational costs by 25 per

lathes, however, tend to be the

material used and the shape of

Under adaptive control, the controller, taking account of the motor's, power, automalically and constantly optimises the speed and depth of cut. :

In-process gauging is a recently developed intended to supplant off-line inspection. The controller inspection. checks the dimension which has just been machined and, if necessary, makes a second cut.

Undoubtedly, there are going tn be many more refinements to CNC machine tools in the future. CNC machines are the still growing, and competition. manufacturers increasingly flerce, as European and American manufacturers fight to regain market share

Government grants encourage the development of Japanese robot technology, says Jim Heward

# Staying ahead in the factory

Japanese production of robots

number Installed in Japan

2,300

3,600

5,300

7,800

12,000

16.400

32,200

THE FACTORY of the future is coming along a good deal quicker than the office of the future. There is ample evidence of this in the U.S. where the big money is being spent by companies in aerospace, automotives, electrooics and petrochemicals.

Japan is even more ahead in the factory than in the office 1971 partly because, until recently. 1972 the Japanese language problem has been a brake on bome mar-ket development of the latest word processing systems.

In engineering, most production managers are faced with the problem of dealing with batches of components, all requiring varying degrees of work at a variety of processes; often in different sequences. at the work centres with consequent high inventory costs and loog lead times.

The world trend is now develop - maoufacturing. trolled and can thus he easily computer program that drives the system.

This provides flexibility and leads to the much-used term "flexible manufacturing systems" (FMS). Such a system can be one isolated "cell" or group of machine tools or processes controlled by com-puter. Alternatively, it can be part of a much wider integrated production system in-cluding such aspects as material forming, quality assurance and

warebousing.
The U.S., which has traditionally been known for its advanced manufacturing lechniques, is now finding itself under increasing pressure from Japan and Europe. This is pro-viding a spur, and perhaps it is oot surprising that in such a targe country one finds many examples of highly snphisti-cated and advanced manufac-turing methods, particularly in the aerospace and automotive

Sectors...
Despite the recession and a are beginning to catch on in a big way.

### Biggest exhibition

In March. Detroit hosted the world's largest-ever robot exhibition, "Robot VI." Close on 28.000 visitors, many of them serious buyers, viewed the offerings from 102 exhibitors, and over 2,000 attended conference sessions

ference sessions.

At the beginning of 1982 there were about 100 different robot models available in the U.S. from 53 robot builders or

Many firms are actively seeking ways of cutting labour costs on assembly. For example, one

on assembly. For example, one medium-sized manufacturer in California is developing robots to automate the assembly of hi-fi audio speakers.

Vision systems are heing used with and without robots. They use the power of a video camera, which is usually connected to a special microcomputer, to compare the image seen by the camera with a pre-programmed "idea" of what the image should look like. This is ideal for inspection and some U.S. companies

1978 10,100 42,300 1979 14,500 1980 (est.) 1985 (est.)

400

1,700

1.700

2,500

4.400

8,600

Note: Under 2 per cent have been exported from Japan and a negligible number imported. Source: JTRA and Inducon forecasts.



matic inspection of characters on plastic typewriter

to consider that manufacturing competitiveness can be measured solely by robotisation. However, the degree to which nations invest in robots seems to be correlated with their investment in other forms of automation.

in American manufacturing lechniques is to look at the exhibits and technical papers that were presented to some 3,000 industrial engineers at recent annual convention in New Orleans. Iodustrial engineers are concerned with improving productivity and are often charged with making Some notable examples include West Germany's Messer-schmitt-Boelkow-Blohm's fully recommendations on capital

Orleans exhibitors were showsystems. These include numerically controlled and computer numerically controlled (NC/ CNC) lape preparation systems with a strong bias towards integrated computer-aid design and manufacture (CAD/CAM) reluctance to invest, robotics and graphical aids to tape preparation. Also material-handling systems including laser bar-code readers were

> In Japan there is evidence of large scale capital invest-ment in automated plant for warehousing and production. Many of the developments and innovations are carried out by the companies themselves with a very high degree of interaction between the production engioeering and the product

### tion and some U.S. companies by government grants. The have developed interesting initial development of robot applications including auto- technology was started with

# If managements wish to be relations strategy for introduc

in the following check list:

directed quality assurance policy aimed at zero defects? ● Where can automatic inspection techniques be used to monitor quality without incur-

ing new technology? Is your workforce involved in decision making? Are your stock and inventor levels acceptable? (In Japan, some manufacturing companies are able to nperate with 13

Do you use modern computer techniques with on-line terminals to help with material nlanning?

shop floor data collection and would you benefit from the high level of control that this could

ring labour costs?

Government grants and assis

Do you have an industrial lance available in you?

PT 300H from Dainichi-Sykes Robotics, for manufacture in the UK.

the £43m government fund and there is currently a government funded project worth £26m to

It would; of course, be naive technology.

f automation. low-interest leasing of robots by Another barometer of trends all sectors of industry.

investments.

More than half of the New ing a variety of computerised

much in evidence. Another group of exhibits were computer alded manufac-turing techniques for generat-ing optimum work methods and time standards. Two new microcomputer products, Adam and Capes, were particularly well

### TEN KEY POINTS TO WATCH

shead of international competition, they could do well to consider the ten key points given

• Are you aware of the specific areas in your factory where robots or other forms of automation could yield heoefits? Are your investment decisions in respect of automation based mainly on savings or on improved market share?

Do you have a strongly

days supply of materials and work in progress.)

. Do you have computerised

Are you aware of the

maintain their position as a dominant manufacturing force in aerospace. They are involved in transferring their industrial develop a "flexible manufacturing system" based on laser knowledge to countries such as India, where manufacturing costs are likely to be lower than In - addition. there- is - an Europe

£11.8m fund for low-interest loans to belp small businesses purchase robots and a plan worth nearly £84m by 1985 for In Britain, aerospace companies are also abead with a number of interesting projects. For example, it is reported that Rolls-Royce claim to be reducing the cost of the wheels and disk-shaped parts used in RB211 West European aerospace engines by 15-20 per cent in manufacturers are particularly work hours and as much as 60 strong in their efforts to beat per cent in inspection. This is strong in their efforts to beat off U.S. and other foreign combeing achieved by an advanced

!ntegrated

system. British Aerospace have other comparable developments. The use of modern manufacturing systems and knowledge is one way of staying ahead of emerging Third World nations. They are customers today for sophisticated equipment. However, as modern techniques and knowledge becomes more wideont. spread, they will become the The French are trying to competitors of tomorrow.

### **GRUNDY ROBOTICS** ADVANCED TECHNOLOGY TODAY FOR THE NEEDS OF TOMORROW

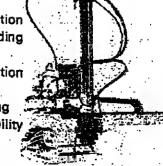
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executes a given work programme with a capability which is more reliable than that of a

To help you establish highly automated production from your injection moulding machines - the STAR unloader provides a solution to the various problems essociated with moulding production, giving reliability



ASSEMBLY

The SANKYO SKILAM

flexibility like that for the

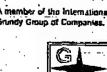
human arm and precisely

provides operational

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and quality,

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# 'The West must not lose out in this race'

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Compeda			0438 56123
CadCentre	<del></del>	-	0223 314848
Computervision	•		0256 5R133
Control Data			01 240 3400
Delta CAE	•	<del> </del>	021 327 340
Ferranti Cetec			0506 411583
Engineering Computer Services		_	9827 873300
Gerber Scientific	•		0274 495811
GE/SDRC		· · · ·	0462 57111
GMW Computers	<del></del>		04427 5481
Hewlett Packard		· ·	061 928 6422
Intergraph	<u> </u>		0753 47033
International R & D	<u>-</u> _		0632 650451
Manufacturing Data Systems	· •		021 704 4423
Pafec		•	0602 292291
Quest		<del></del>	0202 891010
Racal Reduc	•	-	0684 294161
Sperry Univac	•		01 965 0511
Tektronix	•		05827 63141

Tektronix		•		05827	631 <b>4</b> 1
* Note: This list is no by companies before	ot exhaustively.	re and is	based o	n data s	upplied
Comparis ro	bot price		apan	with	• •
Items	1970	1975	1976	1977	1978
Annual wage	0.852	1.968	2.206	2.412	2.580
Coefficient of labour of except wages	1.154	1.170	1.173	1.178	1.180

icu<sub>n</sub>

11.790+ 11.120 11.010 11.900 11.100 Man years equivalent per playback robot 3.8 † 1971 robot prices.

Total labour cost per

Mean price averaging all

Mean price of playback

man year

types of robot

Source: Umetani.

Annual production of robots in

4.580+ 4.060

4.670

5.230

Japan	-197	4 10	1973	<u> </u>		
Type of robots	1974	1975	1976	1977	1978	1979
A-Mannal manipulator .	713	772	697	1,127	1,576	1,051
B-Fixed aequence robot	3,287	3,297	6,199	6,494	7,066	10,721
C-Variable sequence robot		***		425	652	1,224
D-Playback robots	165	137	183	357	506	662
E-NC robot	1	0	. 6	. 11	25	89
F—Intelligent rebot	1	12	80	199	255	788
Total	4,167	4,418	7,165	8,613	10,100	14,535
Source: JTRA.		14.				

AT A RECENT presentation for series of "cut and try" financial analysts in New York, Mr James Baker, a senior tion were "frozen like deer in them. It won't."

In June, Arthur D. Little example, that many Western manufacturing chief executives bave a dozen or more levels of personnel between them and the shop floor, while the Japanese make do with five.

They are predominantly white-collar staff, says ADL's Dr Irvin Kraus, simply because present-day manufacturing consists not so much of fashioning materials as it does of manipulating information.

That, certainly, will be the essence of manufacturing to come, because marketable prowill become yet more complex under technology and market influences and so will be more difficult to design and make. Like the U.S. Cavalry, the

computer has been coming to the rescue for several decades. It continues to gallop madly, but its platoons bave separated, each chasing Indians of its own. At one time the vision was of one large computer overlooking the whole process, from design to test, from input materials to finiahed goods warebouse.

The advent of the small, powerful mini- and micro-computers changed all that Several computer-aided technologies bave been born, with acronyms that warrant some explanation.

• CAD, computer-aided design, in which the engineer or designer can "compose" a part, structure or circuit with screen and keyboard plus perhaps an electronic stylus and pad from which be can specify stored combinations of graphical or other data and put them on the screen. Until recently concerned with the routines of mechanical draughting and circuit layont, CAD is now becoming more intelligent.

CAE, computer-aided engineering, bas resulted from this ability to store technology knowledge and apply it auto-matically. Further clever software allows engineers to try what if " experiments with the fundamentals of the design, centralised control based on a facture is to produce dough numerically. The resulta obvariety of devices, it was pieces of consistent size and tained would otherwise need a realised that weighing and weight.

series of cut and try pro-totypes with live testing or, failing that, extensive calculations. executive of General Electric For example, a crane jih or an of the U.S., asserted that man-aircraft wing could be "loaded" agements not planning automa- until it buckled and the failure points seen on the screen. the Japanese beadlamps, hoping Formal blueprints vanish and for some outside force to save all concerned always see the same thing (from virtually any angle) at the same time on their experts were making similar VDUs. Then, other programs comments, pointing out, for will use the data generated to produce machine tool instructions, mould patterns and be-fore long "flexible assembly"

> facturing. Definitions vary a probably little, but CAM can essentially favour. be seen as the growing alterna-tive to fixed automation (in which a machine can only make one product). It embraces intelligent robotics and flexible manufacturing in the widest sense. Computers and sensors (visual or otherwise) combine with mechanical devices to give production units that can Britain's Membrain), Teradyne cope with unforeseen circum- and GenRad, but Fluke, Gould. stances, ranging from a product Hewlett Packard, Marconi

Geoffrey Charlish reviews some of the rapid advances in computer-aid technologies

change to (ideally) any kind of problem on the line.

• CATS. computer-aided time Where manual standards. assembly remains, as it often will for some time to come, this computerised equivalent of the time study man" by the • CAM, computer-aided manu- H. B. Maynard company will gain increasing

• ATE, automatic test equipment. Brainchild of the elec-tronics industry, where the extraordinary complexity of integrated circuit and printed board makes manual testing impossible. Big names in the ATE business are Schlumberger (embracing Fairchild and

all active in a market predicted to grow by researchers Dataquest to \$7bn within two years. ATE is now spreading outside the electronics industry.

# FMS, flexible manufacturing systems. Development of the computer to give production machines (mainly metal removal) the ability to deal with a variety of products automatically. Still in research stage with only a handful of installatlons in Europe.

• CIM. The ultimate acronym? It stands for computer-integrated manufacturing and embraces all of the above. Technology exists already to link these "islands" of design. production, test, and so on.

### Research

But these factories of the future are in the laboratory as the moment. For example, at Stanford Research Institute in California, Dr David Nitzan's team linked a pair of robots

Instruments, and Zehntel are feeders and visual systems to activity yield an unattended assembly remain. station.

> Research Association (PERA) at Melton Mowbray, the CAD-by Mcrrill Lynch, probably Centre at Cambridge, Cranfield exceeded \$750m last year and Institute of Technology and is put at \$2.2bn for 1984. universities offer several these areas.

items calls for communications and Calma (GE1. over intelligent local networks,

The product, in pipes, lends unifying screen as plant monitoring and product." cootrol. BBC-Kent, Foxboro. Honeywell, Rosemount, Sybron this market.

" islands "

Much of the CAD/ CAM/CAE industrial expendi-. In Britain, organisations like ture so far has been in design/ the Production Engineering draughting, in a market that was put at over \$500m for 1980

The front runners are U.S. research and consultancy in based and are Computervision 11980 sales of \$190m, or 36 per The linking of the separate cent of the market l. Applicon

Advance towards the autoan area now under active mated factory is being held up development for both office and by investment hesitation and fear of change, according to Dr The continuous process indus- J. N. Orr, a Sperry Univac contries (oil, chemicals, brewing sultant. He asserts that newfor example) are rather nearer comers can and should make a to this sort of total control. start with CAD, because "the thread itself well and process CAD can through the whole factory is now be conducted on the same the geometric description of the

The West must not lose ou in this race. Perbaps some more Taylor and Turnbull are all in words from James Baker at GE are appropriate: For the moment, however, the is between biting the bullet or

Focus on Baker Perkins, a front-runner in the computer-aided design and manufacturing field

# Computer solution to consistent quality

BAKER PERKINS, the Peter- ingredient routing could be borough-based company and one of the world's leading suppliers of food production plant has been a front runner in the supply of CAD/CAM equip-

Although the company bas other interests, print equipment, for example, food processing has been of special interest since the company took computers to its bosom in the 1950s.

There are several main control applications in producing such items as cakes, biscuits, etc, with consistent quality. shape and design-ingredient handing, mixing, forming and

Baker Perkins recogned that the sequence lent Itself to microprocessor and programmable logic controllers (PLCs) to less waste.

Although ingredient handling

placed under a single controller, or for very large plants several PLCs operating in parallel.

Baker Perkins has also incorporated a PLC into a recently designed small batch, high speed mixer. This provides the entire control for ingredient calling, weighing. mix cycle sequencing, timing and the regulation of dough and mixer bowl temperature.

### Comparison

Historical information on the Ingredient quantities used for previous mixings can be the plant operator for com-parison with the standard formula or, as a diagnostic aid produce consistent results with in the event of a suspect dough

Once the consistent dough and weighing areas bad for mixes have been achieved, the many years had some form of next objective in hiscuit manu-

control of the dough sheet thickness fed to the cutter, is one approach. Optical aensors can be used to determine the. abeet thickness but problems may arise where the dough surface is irregular or has discontinuities.

Baker Perkins devised a system of sensing the reaction of the first gauge rollers to the dough being fed in and found that for a given situation the signal was proportional to the mass flowrate. This could, therefore, be used to control the sheeter speed to achieve uniform dough metering.

retained by the PLC. The. At the final baking stage information can be recalled by Baker Perkins has designed ovens with automatic control of temperatures in each baking The distribution of hot alr within a given zone can be set by the adjustment of dampers within the circulation duct system, which can be set either manually or remotely from a central control point.

> Provision can also be made measurement of

For pieces formed by cutting, humidity in each zone. These with Baker Perkins drawing instruments are capable of office staff there was some measuring humidity directly at reluctance to volunteer for temperatures up to 350° C, and training. assist the baker to set his oven to produce in the most started almost without excepeconomical conditions.

Baker Perkins, apart from supplying plant to outside users, bas also made extensive use of CAD/CAM methods within its own plant.

Mr Ron Jackson, Baker Perkins CAD/CAM manager, has been closely involved with the problems since the 1970s. He quotes the comment that "apart from the propelling pencil, CAD is the only significant advance in drawing technique for more than a century.

"It is a paradox." he says, "that it has taken so long for the working environment of the subject of dramatic technological change. Comparing former manual drawing work with the use of computer-aided designs. Mr

Jackson points out that before

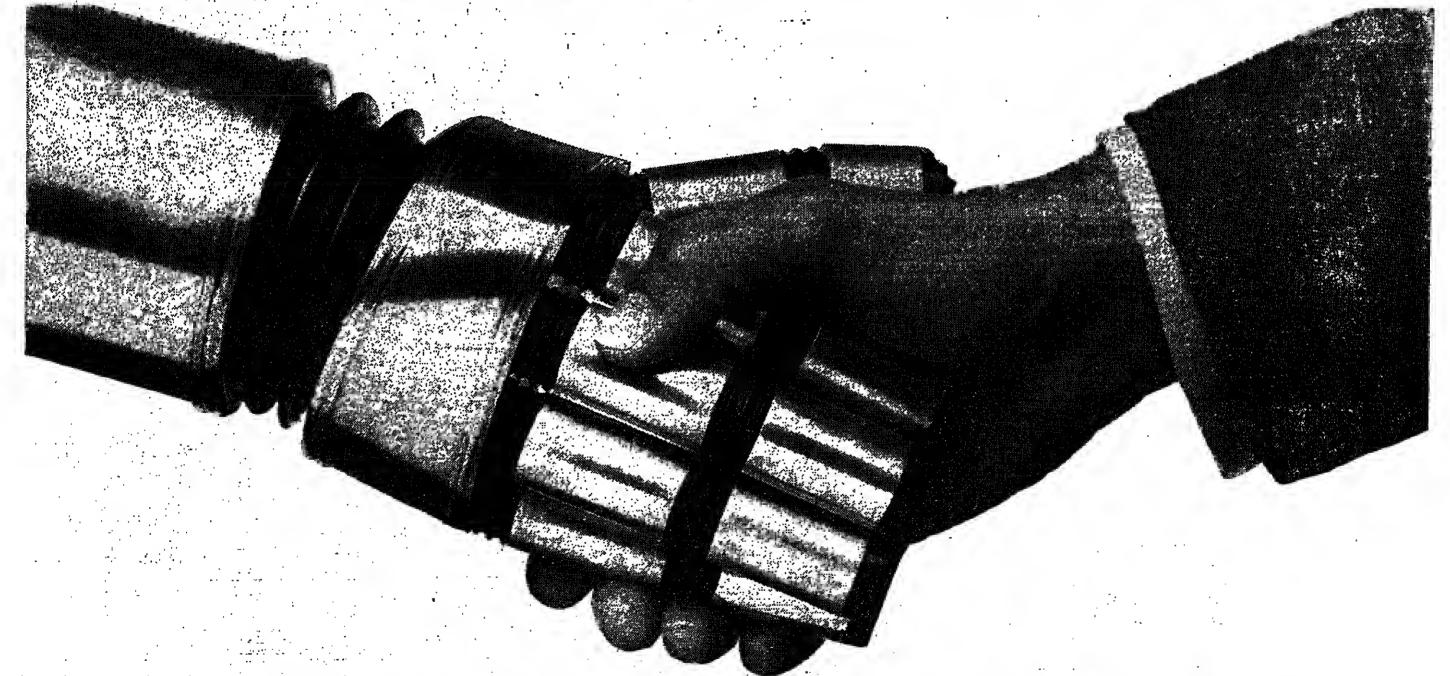
the acceptance of an agreement

tion people responded well as they realised the potential of the system at their disposal.

"One of the most difficult tasks when introducing CAD was to promote understanding among the drawing office staff and chminate the natural fear of the unknown. Now the majority of people are trained, CAD drawings are commonplace and there is, generally a better appreciation of the role CAD can play."

Mr Jackson stresses that his company has found that the quality, consistency and accuracy of drawing work by CAD has been outstanding by creative engineers to be itself any standard. The operator, as he becomes experienced, can concentrate on the engineering detail of the work with the ability in edit quickly to reach first class presentation.

Max Commander



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And every trade unionist recognises the threat. But that needn't necessarily lead to confrontation.

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# MANUFACTURING AUTOMATION IV

New developments in flexible manufacturing systems.

# Efficiency in small batches is the goal

THE AIM of the fiexible mann- has resolved the debate over facturing system is to enable a whether we need this technology company to produce small batch or not." quantities of different com-ponents as efficiently as if it were using mass production

In its ultimate manifestation, it could be called the "factory of the future" or the "unmanned factory." where the entire plant is driven from the order book.

In an idealised unmanned system which generates the Numerical Engineering Society.

necessary instructions for the worked with Mr Williamson. design the parts. It tells the computer - aided warebousing system to withdraw the necessary raw material from the store and gives instructions for "cells" (groups) of computer-controlled machine tools served by robots to carry out the actual

machining.
Such a sophisticated system probably does not exist any-where in the world. A number of companies bave installed systems which come close to the ideal but as Mr Jan Carlsson. secretary of the Computers and Electronics Commission of the Swedish Ministry of Industry, points out: "There are at most 220 FMS in the world and 70

of them are in Japan." Mr Carlsson and one communication have recently carried out a study of robotics and computer on. In my view, they were too small, too directed to light Mr Carlsson and bis commis-(CAD/CAM) for the Swedish Government Their conclusion was unequivocal: "Given the economic problems that most with Theo Williamson—he was industrialised countries now always 15 years ahead of his face, productivity improvement is a main target of industrial

"For this reason, Sweden and other countries have given high priority to the promotion and

The fruits of that priority are now clearly to be seen in Scandinavia, in the U.S., in Japan and increasingly in Europe. Even in the UK, traditionally a laggard in the introduction of advanced mannfacturing technology, the picture type of part and fed by a is not as black as it was two central Unimation robot.

Professor Rohert Bell, head of the department of manufactur-University, told a conference in 1981: "The flexible manufacturism is neither so long nor as coherent as that of conventional controlled." and advanced manufacturing system computer for British industry."

beginning to happen in Britain: on a " The level of performance of the major Japanese companies

FMS is hardly a new idea, and at one time the UK was well to the fore io the development of these systems. Old machine tool hands remember the Molins System 24, designed by a genius from Ferranti, Mr Theo William-

Mr A. A. Lodge, general manager of Cincinnati Milacron

"He took the view that machine tools should work 24 hours a day, while bumans ahould work only eight. The System 24 went a very long way down the road to flexible manufacturing. First, and most important, it was driven by the order hook. Orders were fed into the IBM mainframe which controlled the system and the computer produced production schedule.

### Too costly

"The system comprised four profilers and two drillers linked together with automatic pallet loading and unloading and served by "Moleks" a kind of Molens Dalek, which moved materials about the plant.

alloy and cost Molins too much

money to develop.

"But that was the trouble with Theo Williamson-he was

What happened in those 15 years which made Theo Williamson's dream a commercial reality was cheap microelectronics. The System development and diffusion of 24 was computer managed but industrial robotics and computer the machine controllers were aided design and manufacturing simply not up to the ambitions of the architect.

Now it is possible to step on to the shop floor in Volvo's truck manufacturing plant in Vasteras, Sweden, and see a cell of five different machine tools carrying out operations simultaneously on the same Unmachined parts are brought to the cell and machined parts moved oo by virtually ooiseless

readily achieved form of numerically controlled and computer numerically con-trolled machine tools. The Now he believes FMS is systems are often put together "mix and mstch" basis more akin to consultancy....

In the U.S. the leaders (FAST).



passing down a central Palletised vehicle components conveyor of the Gardner manufacturing system.

include Cincinnati Milscron being slow to take on advanced manufacturing techniques. Mr. Lamoot Jenkins. a former president of the Numerical Control Society in the U.S. said that only 3,900 U.S. companies were implementing CAD/CAM technologies out of come 30,000 with the notettial

some 30,000 with the potential

to use it. In Japan, the leading companies ioclude Yamazaki and Hitachi-Seiki; Yamazaki has raised considerable interest recently with the commissioning of a factory based on FMS techniques which manufactures tools: cannihalism in according to one reverse." senior

consultant. Fujitsu Fanuc, the world's manufacturer machine tool controllers has a factory in the shadow of Mount Fuji where industrial robots. cootrolled hy computers create other industrial robots.

Scandinavia, companies like ASEA and Swedish Macbine Tools are towards completely flexible manufacturing systems. The Swedish approach raises an interesting point of philosopby.

ASEA is developing robots of the most sophisticated design, able to follow the line of a seam or assemble a part and act as the service link in a FMS cell. Swedish Machine Tools (present in the UK as SMT-Pulmax) has developed a computerised part changer which provides for the fully automatic exchange of parts on its Swed-turn lathes. It may seem purely semantics, but some manufacturing consultants believe that robots are too expensive and sophisticated for the shop floor and that there is a brighter future for computerised part changing. The consensus, how-ever, is that both technologies have a part to play in the factory of the future.

In the UK, FMS systems have (KTM) of Brighton, Cincinnati Milacron (UK), Giddings and Lewis and Taylor Hitec/Tube Investments Machine Tools (going under the name of Mechtronics) and 600 Group. GEC is represented by Factory Automated Systems Technology

Everybody is agreed that and Sunstrand; there is while the Japanese are far evidence that although there ahead in the use of FMS are pockets of advanced work. (although not in the technology companies in the U.S. are itself) there is little to choose now between the U.S. and Europe in manufacturing sophistication. The U.S. uses automation on a bigger scalethe level of technology and the way in which it is used seems to be on a par. While the motor manufactures are the biggest users of robots, the best-known of the UK FMS users is Normalair Garrett, It has a 25,000 sq ft advanced manufacturing facility at Crewkeroe,

It is not as advanced as the £4.5m faculity at the Barton Hall engine works of L. Gardner and Sons (both, incidentally are KTM installations), but it bas been in operation for over 12 months and Mr Kenneth Wills. Normalair Garretts's manufacturing director, has been able to quantify the benefits of the system. Normslair claims the system is run by 11 people on two shifts, making complex prismatic parts for Tornado aircraft ejector release units.

### Reduction

Labour costs are now £148,000 a year against £400,000; operator output has risen threefold and stock and work in progress is turned over 24 times a year instead of 3.3 with a corresponding reduction in value held nt any one time from £690,000 to £90,000.

These figures have the near magical quality that has come to be expected of Japanese production performance; they are confirmed by figures from other countries. Volvo uses 20 per cent less working capital with flexible manufacturinginterest charges of SKr 900m (about £90m).

Sophisticated alone, however, will not hring Everybody is agreed that success is based on basic overall organisation for manufacturing. Mr John Puttick, head of PA been proposed or installed by Management Consultants Manu-Kearney and Trecker Marwin facturing Division warms of the facturing Division warns of the tories, Kanban, robots and so on are only applied in harmony with an appropriate competitive

Alan Cane

Flexible production line speeds the flow in advanced vehicle plant.

# French system sets the pace

an engineering works. There are machines, enormous drills, few rough, castings waiting for attention, and plenty of action going on around the large-scale equipment.

But in every other way, a walk around the Renault Vehicules Industriels (RVI). plant at Boutheon is to take step into the future. This is France's most advanced, fully operational flexible factory, and it works in a way which marks a crucial break with the methods that have turned the motor industry into the giant it has become today.

To one side of the plant is a raised dais, encased in glass. Inside sits a man, surrounded

hy controls and television screens, calmly checking the computer read-outs that ahow him if the plant is working

Down below, on the 3,000 sq m compound, there is only a handful of workers. The main movement comes from a group of chariots, gliding effortlessly from machine to machine as the parts they carry are gradually drilled and sbsped to the requirements of the system.

To the causual eye it looks as if all these movements are pre-ordained in some infinitely repestable pattern.
As the chariots slip silently

around, they appear to be doing the job of a standard transfer line. But in fact, the chariots perfom a variable waltz, subtly varying their directions according to the commands of the computer. These variations lie at the

heart of the system, and they explain why the plant is causing a revolution in methods. When Renault Vehicules Industriels came to design the Boutheon factory, it had the ,choice of installing a traditional automated production line system. The plant makes gearboxes for heavy lorries, and this particular machine shop was designated for the drilling and preparation of the heavy

NUMBER OF ROBOTS IN SOME MAJOR CAR MANUFACTURERS Mainly for spot welding car body assemblies; figures for 1981.

Britain	BL	37
U.S.	Ford Chrysler	More than 300 160
Japan	Nissan (Datsun) Toyo Kogyo (Mazda) Toyota	300 5. 50 200 (planned to increase to 920 by March 1983)
Sweden	Volvo :	58 (1977)
Italy	Fiat	300 (1979)
	Renault	30 (1977)

of gears. Four different parts needed to be machioed. In a traditional workshop, the four separate hits of the casing would have required four different automated production lines. The parts are not identical and could not be put through the same processes.

With the Initial output of only 40 a day, rising to a target of 70 and possibly 100 later, RVI was heing asked to tie up a lot of money in the different production lines which could be only used for the one specific product throughout their work-

The flexible factory system allows RVI to escape these constraints in using only one pro-duction facility for all four casings. Instead of being moved around the factory on standard transfer lines, designed for to standard parts, these are taken to and from the workposts by the chariots.

There are seven of these different machining centres, and they are each capable of recognising the different parts presented to them. They drill and trim the cases according to the special, parameters of the four different designs.

The only direct buman intervention in this process comes in the initial loading of the shop to be adaptable to different

casiogs according to instruclions from the central computer. All the other of the 15 workers in the plant, now producing at the rate of 40 entire cases a day, are working on mainteoance

### Breakdowns

At the centre of this the computer, cootrolling the movements of the chariots and constantly checking the flow of work on the casings. To a certain extent it can even cope with hreakdowns, making the trolleys circumvent a machine that is not working to keep the components moving through the plant as quickly as possible. The computer also performs a crucial function in optimising the work flow, choosing the parts be machined and the machines to work on them in order to keep the maximum number of cases moving through the plant. This facility means an important breakthrough on stock costs, an area in which European plants perform coosistently worse than Japanese. RVI says that in giving the

contract to build the plant to the group's machine tool subsidiary, it set out three bastc demands. It wanted the workchariots. Two men select the volume throughputs, it also

to different types of product or certain modifications in the existing ones; and it wanted the plant to he capable of swift adaptation hetween different products in order to cut stock holding to a minimum. It also insisted that the solution should be competitive with traditional system in both the investment

requirement and depreciation. The group says that all of these criteria have been met. First, on the volume question. it is already planning to step up production from 70 units a day to 100, and says that further expansion is possible.

Secondly, it has already mndified the system considerably during the planning stage, and is planning two new variants in the machining of the current parts. A further new part will be introduced later, it says.

Thirdly, on the stock management issue, it says that the current four casings are heing machined without any time heing taken up to change and reset the machines. When a further gearhox is introduced, it believes that the entirely different type of casings will be capable of being accommodated in the machines with only a four bour wait for resetting.

The company adds other advantages. The plant adjusts particularly well, for example, to breakdowns, allowing work to continue, if at a alower pace when traditional lines would be at a standstill. It also allows a high level of productivity because the machines are extremely adaptable and are programmed for optimum use by the compater.

Because of this high degree productivity RVI believes that it will recoup any extra building costs — investments amounted to FFr 45m—compared with the conventional systems. Running costs are also lightly lower, with the workforce expenses roughly the same, and an important gain on

Terry Dodsworth



Whats it costing

your company

to ignore

If manufacturing industry is to start producing a better

Now, there's Government support which can do a great

return on investment, it has to improve its productivity.

And industrial robots can, in very many cases, make a

deal to ease any financial obstacles or

technical uncertainties and see firms

No business is too small or too large

financial assistance towards feasibility

of Industry, this support includes

studies carried out by consultants,

investment assistance and financial

And it's the company's own

going to try to run things for you!

performance are probably more

your future to find out more?

management which makes the decisions;

So, the improvements in productivity

Department of Industry

and competitiveness which could make all

the difference to your company's financial

accessible than you and your colleagues

have been thinking. Don't you owe it to

there's no 'man from the ministry' who is

support for all the associated costs of

Available through the Department

through the start-up period.

developing a new system.

critical difference.

to qualify.

dustrial robots?

Government support

for industrial robots.

Please send me full details of the

Government's robot support scheme.

Possible areas of robot applications if known

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### REASONS FOR ROBOT SUCCESS IN SOME MAJOR APPLICATIONS

rinançisi ilimes rinday suly in torz

@ Spot welding

Process suits robot repeatability and accuracy; heavy and unpicasant task for buman operator: line installations work well under central control; high quality and consistency, e.g., improved weld pat-terus; continuous shift work possible; flexibility for model changes and variations: shortage of skilled welders/high labour costs.

• Spray painting/

Unpleasant environment for human operators, so fewer human prohlems; reduced labour costs; fewer rejects and high quality; raw material (paint/nuderséal, etc.) savings; health and safety regula-

• Dle casting

Improved speed, accuracy, capacity and safety; shortage of workers prepared to work in the environment; unpleasant working condi-tions/bealth and safety considera-tions; hetter utilization of capital equipment.

• Injection moulding

Better performance on large moulds than humans can perform; other tasks possible such as trimming, loading inserts, etc.; noxious environment; boring work; better utilization of capital environment.

● Wachine loading/

Helps to reduce dead handling time; shortage of skilled labour/ high wage rates; increases produc-tivity of equipment; speeds an production time; good compatibility with NC technology; many pro-cesses (changing palterns but high level of repetition) ideal for roboti-

@ General handling/ (nalletizing, stacking. packing, etc.)

Repetitive, horing and sometimes heavy work for human operators; safety ennsiderations with hazardnus materials; improved handling of delicate materials, e.g., sheet glass, TV tubes; continuous operatinn, easy to run.

Source: Creative Strategies International

### UK applications quoted by major robot manufacturers

ASEA	Cncinnati Milacron	GKN Lincoln Electric	Hall Automa- tion	Treitta	Unima-
-			*	*	*
*	*			*	
*	*	*	*	*	*
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*			*		*
*			*		*
*	*				*
					*
*	*	*	+		+
	* * *	ASEA Milacron  * *  * *  * *  * *  *  * *  *  *  *  *	ASEA Commati Lincoln Electric  * * *  * * *  * *  * *  * *  * *  *	ASEA Commati Lincoln Automation  **  **  **  **  **  **  **  **  **	ASEA Milacron Electric tion Trelita  ★ ★  ★ ★ ★ ★ ★ ★  ★ ★ ★ ★ ★ ★  ★ ★ ★ ★ ★ ★  ★ ★ ★ ★ ★ ★ ★  ★ ★ ★ ★ ★ ★ ★

### Mark Webster reviews the march of the robots, where a market of £2bn is forecast for the end of this decade

# Key devices manning the production lines

THE WORLD market for gadustrial robots has the feel of another Gold Rush about !!. Everyone, from giant multi-nationals to small specialist companies, is trying to secure a place in the computer-led manufacturing revolution in which robotics will play 3 key part.

But like the thousands who panned patiently for a few specks of gold dust, experts believe that many of the hopefuls in the field of robotics are likely to be disappointed.

"There is no ouestion that ohors are here to stay," said Mr Tom Brook, executive secretary of the British Robo; Association. "But at the moment, many companies want part of the action and when they that the action is not all that big they may wonder if als worth being in the business after all."

Despite the recession, the robotics market has been growing steadily in the past few years. One estimate is that it will carry on growing by a compound annual rate of more than 50 per cent, reaching \$763m by 1986 and touching \$25n by the

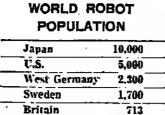
end of the decade.

Even with that sort of grown the market cannot accommodate all the aspiring robot makers. Everyone in the outdoess expects the next few years to he crucial in deciding the eventual shape of the market. especially with the annicipated arrival of the Japanese as a major force in the export market from 1983/84 onwords.

Broadly, one of two things could happen. Either the giants, such as IBM. Westinghouse and Texas Instruments which are currently sniffing at the market, decide that there is not the volume husiness to support their involvement; or the smaller companies exclusively in the robotics husiness are crushed by the weight of the development costs in the robotics business.

Until the expected shake-out comes, it is very difficult to trace any clear definitions in the warld robotics market. Even the word liself is subject to debate. It comes from the Czech word "robata" meaning drudgery or servitude and has been a very broad interpretation by the Japanese and the who include many simple manipirlators.

Perhaps the clearest definition comes from the British task, we have a robot which can



	Franc	te		500
_	Italy			450
_	Other	rs		1,500
	Source.	Accesh	Fionor	Association
•				

**ORIGIN OF ROBOTS** 

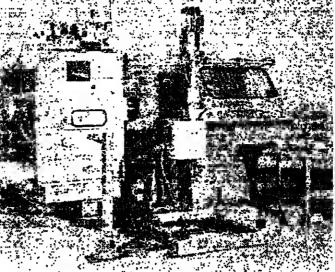
IN USE IN BRITAIN Japan Britain 186 Enrope 258 US 215 Tnta 713 Source: British Robot Association

Associatioo--" a grammable device designed both to manipulate and transport parts, tools or specialised manufacturing implements through variable programmed motions for the performance of specific manufacturing tasks."

On that basis, the automotive industry is by far the largest user of robots with more than 50 per cent of those installed. Most of the world's major car makers have installed robots. Some, like Renault in France Volkswagen in West Germany, have developed their own range of robots and have started to sell them to other industries and other car

Renault's wholly owned robot subsidiary. Arma, had produced more than 350 robots to the beginning of this year of which 70 per cont were for in-bouse use. 10 per cent have been sold to other French ear manufacturers, 10 per cent to foreign car makers and the remainder to other industries. The company points oul:

great advantage of the robots is that they replace auto-matic machines which lack flexibility. Instead of a machine



robot working in conjunction with a Hitachi-Seiki 4NE-600 CNC turning machine. There are increasing applications in general manufacturing and subcontract machine shops for this type of equipment.

them and helping them to get

the most out of the system."

League table

But the world market is far

from clear. No one is prepared

to compile a league table of

manufacturers saying that the

difficulty in defining a robot

makes it impassible. But there

is broad agreement that any

such table would include the

Japanese big four-Mitsublshi

Fujitsu-Fanuc, Hitachl and Seiko—along with at least two U.S. robot makers Unimation

and Cincinatti-Milacron.

Hitachl and

handle three or four projust one part of the story. The grammes. rest has been educating the people who have to work with

At the company's Doual plant where more than 100 robots are working on soldering, painting and materials handling they can cope with changes in models. Both the Renault 9 and 14 run on the same production line and the robot can identify thent by reading a magnetic strip. Renault is experimenting with other ways of increasing flexibility including sensory devices for the recognitiun of different parts,

Britain's BL has a total of 50 robots on its production lines, the bulk of them Unimate rohols being used for spot welding at the Longbridge plant on the Mini Metro. BL's main problem is that the robots are only capable of handling the

"There is some flexibility, hut basically the line is constructed to handle only the Metro," said a BL spokesman. "We are looking now for automated systems including robots which can handle a whole range of models in different shapes and sizes."

.. The European market is a Overall, BL is pleased with its robots." At Longbridge, the patchwork of licensing agree per cent of production time in cause they can relieve much efficiency levels are more than ments, direct foreign involve-manufacturing industry is of the tedium of the production we expected. But then the ment and pascent indigenous assembly work and 95 per cent line.

Units 1,700 96.0 2,516 3,270 1984 4.251 1985 6,291 1986 8,178 26,206 Total 2,118.2

**WESTERN EUROPEAN** 

ROBOT SALES

ROBOT INSTALLATIONS Percentage forecasts, Western Europe

Pick-and-place 55 33 22 Sophisticated 37 .45 42 Sensor-based

Assembly robots (with or without seusur systems) 8 20 25 Source Creative Strategies Inter

robotics and the technology is industries. In terms of installations West Germany leads the field with some 2,500 robots by the end of last year, followed by Sweden with 1,800, the UK with 713. France with 600 and Italy with 500.

The pressure on the motor companies comes largely from their main competitors, the The markets within those countries vary enormously. Italy, for example, has the vas further than any other nation in the application of robotics. majority of its robots in only three companies-Olivetti, Fiat Of an estimated world popula-tion of around 25,000, the and Alfa Romeo-while the British have a much wider Japanese have more than 10,000 spread of more than 100 different cumpanies in many on the basis of the British Rehot Association definition. The U.S. comes next with 5,000. sectors using robots.

Until now, robots have been used largely for simple, repetitive lasks, ofte nin unpleasant conditions which might be hazardous to human beings. They can be used for spot and arc welding, surface treatment, machine toll loading and unloading, die casting, foundry work or general handling.

they are expected to expand fastest is in assembly. Already, General Electric, Westinghouse, Instruments, IBM, Siemens and RCA are evaluating robots for assembly work, It has been estimated that 50

Robots could he used to speed-up processes considerably but they will need some of the human skills of manipulation, precision, gripping and sensing before they can carry out their tasks effectively. In order to do so, a number of companies are developing sensing devices, some using cameras, but the cost has so far ruled out practical applications.

The Japanese Industrial Robot Association has already identified more than 100 manufactured products which could be assembled by rubots with vision capabilities including compressors Robot appliances, users helteve that what is necessary now is a better dialogue between them and the robot makers to agree on what sort of rohot is needed in the future.

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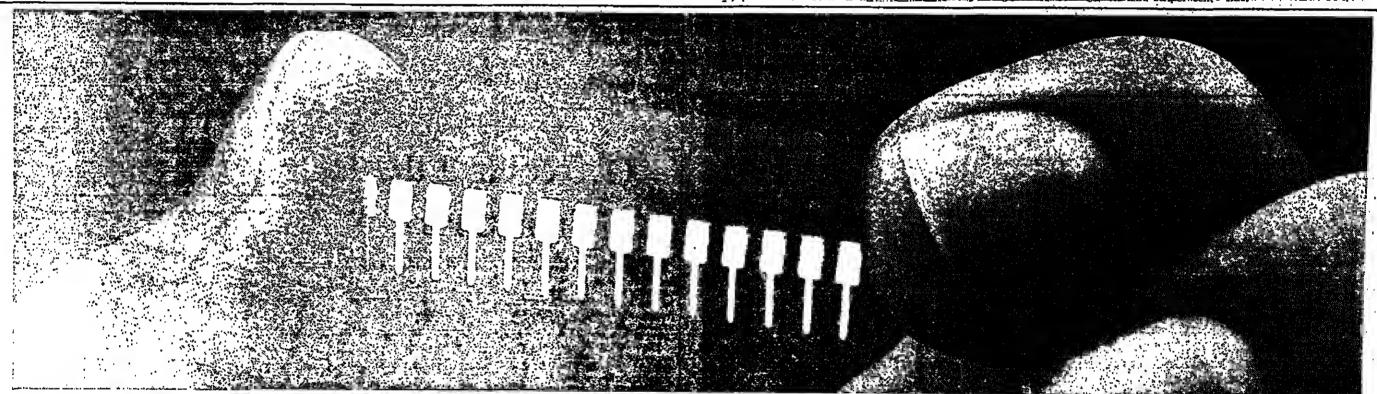
One of the most pressing needs, according to the users. manufacturing systems. By the time the system is installed with the necessary ancillary equipment, the robot might only account for 30 to 40 per cent of the cost.

To help the manufacturer select from an increasingly bewildering array of robots and equipment, specialised con-sultancies have begun to spring up which can handle the systems requirements of robot purchasers and more are likely

In Britain, for example, the Department of Industry has compiled a list of approved consultants who will carry out a variety of tasks from a simple factory inspection to see if a robot can help the production, to a full scale design study on mented and who could supply the necessary equipment.

Companies which have idopted robots have done so for four essential reasons; - im-proved productivity and efficiency, better product quality and consistency, the elimination of hazardous work and overcom-But one of the areas in which, ing problems of labour short-

In some countries like Sweden and Japan which have followed the most progressive line on robots, the workforce has tended to support, even press for the use of robots be-



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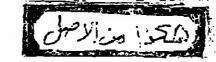
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Rhys David highlights the benefits that have come to a relatively small company since it became one of the largest users of robots in Britain

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Vital key to streamlined productivity lawn mowers, a breed of men

This year an unosually hot and dry early summer throughout Northern Europe - where the public tends to care about its lawns—stunted growth and suppressed the lawn mower replacement uree. recently, monsoon-like weather parent group, bas ruled out most gardening

for the climatic combination of rain and warmth which will

maximum

It was the vagaries of the lawn mower markel, not to mention the strong competition within it, which persuaded Flymn, the UK subsidiary of the Swedish Electrolux group, that continuing improvements in productivity would need to have priority if it was to survive and grow. And this, in turn, set the company on the path to becoming—in spite of its relatively small size-one of the biggest UK users of robots.

activity anyway.

The butt of the "less bovver han a bover" advertising advertising years ago by a rival), Flymo bas at the rate suited to the slowest

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achievement for a rather un-usual product which has that spends the spring praying brought the air cushion technology of the hovercraft to hear rebalancing of lines. on the problem of cutting

> In addition to its 500,000 UK sales, Flymo also exports mowers annually, 200,000 mainly to the Continent, as well as making various other pro-More ducis and components for the

> > The first in the series of steps which the company has undertaken to improve efficiency. culminating in the purchase of the present 23 rohots, was a complete reorganisation of work patteros at the main Newton Aycliffe factory in the North-East of Eogland

Under the previous production line system, problems arose every time work had to be rebalanced when different pro-ducts were introduced to meet variations in market demand, says Mr William Palmer, the manufacturing director.

pressure, inevitably. would be for the lines to be run

IT HAS not been the best of about 35 per cent of the UK operator. Moreover, by the time years for the manufacturers of market of 1.4m power motors new arrangements had been a year-a not inconsiderable worked out the market might well have changed again and a different product might have to he put in requiring a further

### Stock-holding

The solution has been a change, during a four- to fiveyear period, to a module system with one worker being responsible for all the assembly tasks on a particular product. Stockholding has been reorganised to ensure each individual baa a readily-available supply of all the various parta needed, as well as additional tooling in-

Quality control - previously carried out by inspectors—ia now bandled by an automatic station, through which the products are sbunted. The savings have been dramatic assembly now taking 35-40 per cent of the time previously needed, enabling Flymo to continue to under-price most of its rivals.

The plant's robots—the second stage in the drive for higher productivity—have been brought in at an earlier point in the production process, mainly to serve macbinea producing parts for assembly.

Components for lawn mowers (and for vacuum cleaners, another Newton Aycliffe product) need a bigh standard of finish, free of scratches, and for this reason cannot simply be expelled from plastic moulding machines on to conveyors. A total of 19 robots are therefore engaged inside the modern factory buildings in the task of lifting the finished part from the moulding machine and transferring it to a bolding

The installation consists of British-made Mouldmates from Mouldmation, simple pick-and-place robot, and of fully re-programmable materials-handling units (MHUs) from Electrolux (which earlier this year sold its robot division to another Swedisb

group, ASEA1.

Flymo also has two bighly American-made Unimation Pumas. One of these works in tandem with a MHU which lifts lawn mower bandles from a bending machine and passes them to a plastic coater. The Puma takes the handles from the plastic coating machine and loads them on to an offtake rail, and after further development work will load the parts directly on to a conveyor.

The second Puma is engaged favourable. on assembly—one of the few such operations currently being managed by robots in Britain. It takes a complete tawn mower molor and builds on to it ten different parts, including fan and blades. The motor is then ready to be placed in its hous-

Delivery of a further seven MHUs-to be employed on various bandling tasks-has now

worked out at around £14,000-£15,000 for the basic model. though engineering them inhouse to carry out the required tasks can add a further 50 per

payback is relatively however-no more than rapid. year. The other great virtue observes, is consistency. In the short-term, a good operator can out-perform a robot hut will have difficulty going on doing

Among the 700 employees at the plant, reaction to the introduction of rohots has

The union can see we are iovesting for the future and components used in its lawn that by reducing our costs we mowers and other products inmarket share and maintain stocked and have to be called employment." Mr Palmer points employment," Mr Palmer points, up again and brought together

In 1976, the company was proyear and taking 11 per cent of the market. Further growth is expected beyond present levels Continent become more familiar with the hover grass-cutting principle.

### Fully tested

At Flymo, efforts were also made to ensure robots were not introduced into working situations before they had been fully

"When we introduced the first one, we built a complete dummy injection moulding rig, away from the production lines. The machine spent three months picking up a lawn mower hood, moving it to a new station and placing it down.

"We did not want to put it. on a live moulding machine hefore the process had heen dehugged because this might have discredited it," Mr Palmer observes. A similar period of training has been set for the robot now working on motor assembly.

is likely.

plant makes many of the plastic for assembly.

The next step is likely to he ducing only 150,000 mowers a the linking of the plastic moulding lines-where much of the handling is already robotisedwith assembly. of output as markets on the internal storage, handling and paper work.

As a further stage, products will he designed with automated assembly in mind, though there are obvious dangers. Mr Palmer admits, that the assembly tail could end up wagging the finished product dog-"there will obviously have to be close liaison with marketing to achieve the right balance between lowest costs of producachieve tion and the features the finished products should have,'

he adds At consumer level, the robot that many Flymo purchasers would be one that collects the cuttings left hehind by the hover mowing technique. The company has tackled that particular problem, however, other way, in line with its be-llef that where other, more simple solutions are available they should be used.

After a lot of research effort. In fact, to into fan design and air flowbe the next hig area for robots much of it with universitiesto tackle at Flymo, again as the company is now offering part of a wider re-organisation machines that can blow the aimed at increasing efficiency cuttings into a collection box.



Mr Bill Palmer, manufacturing director of Flymo, seen with one of his family of robots— "antomating this task bas helped to maximlse ontput from the capital-intensive injection moulding equipment," be says. For employees, the installation of robots has climinated hot, boring and repetitive work, such as unloading Flymon air-cushing lawsmower hoods from automatic mnulding machines

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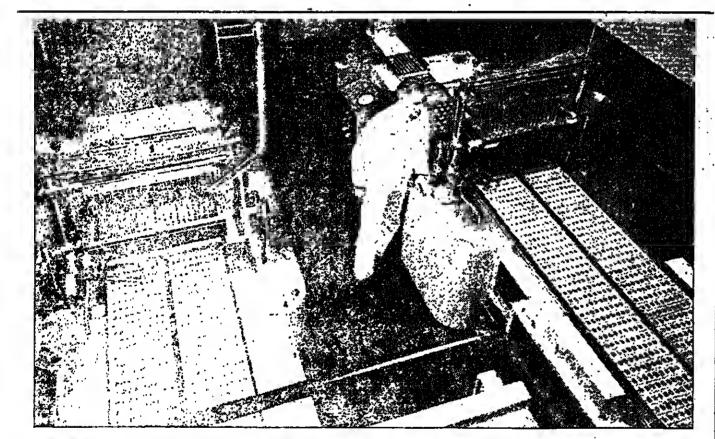
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# "MCAUTO cad/cam keeps Baker-Perkins internationally competitive"

 Ron Jackson Cad Manager Baker-Perkins

In 1977, Baker-Perkins, a leading British manufacturer of bakery, confectionery, and printing machinery and plant, decided that minimizing its response time was critical if it was to continue to successfully market its products.

"We decided to implement a cad system to reduce our lead time, said Ron Jackson, Cad Manager for Baker-Perkins. We chose the unigraphics system from MCAUTO, a division of McDonnell Douglas. The system offered the best mechanical engineering capabilities at a reasonable price."

### Mind-to-machine cad/cam.

Unigraphics is an interactive computer-aided graphics system. When engineers use unigraphics to design a product, they can create a three-dimensional geometric description. This permanent data base is used to produce engineering drawings automatically and graphically generate NC tapes. One system can take the product from mind to machine.

### Cad cuts draughting time in half.

Baker-Perkins began by implementing the cad capabilities of the system.

"We were impressed when one of our design engineers was able to start work on the systam after only six hours of training. On our first project, redesigning a printing press, we found that the unigraphics system cut design and draughting time in half."

### Grip pays for itself - immediately.

In 1977, Baker-Perkins implemented the cam capabilities of the Unigraphics system, the graphics interactive programming software (Grip), which allows subroutines to

"The first major grip program was used in making a size change on a printing press trame," says Jackson. "It paid for itself on the first application."

### MCAUTO: Cad/Cam from a Cad/Cam pioneer.

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# Overcoming the limitations

Important obstacles have still to be surmounted in

the robotics field, according to Unimation, a major

equipment supplier.

presence in the UK, is expected to launch a fully computer-aided design (CAD) compatible version of its Puma Robot

towards the end of this year. The company, which bas experienced strong growth in demand in both the U.S. and Europe, believes that advances in manufacturing automation wilt eventualty mean much wider use of robotics but points out that there are still a number of obstacles to be surmounted. Robots and machine tools have to communicate in an inte-grated manufacturing system but the electrical interfaces between these devices are rarely

Based in Telford, Shropshire, Unimation has developed a system whereby its robots can electronically recognise their own idiosyncrasies and make the appropriate adjuatment automatically, thus adding to their flexibility and ability to be integrated into manufactur-

standard.

ing systems.
Unimation which uses 96 per cent UK-sourced components, for its UK built products bas recently noticed a far more knowledgeable approach by potential customers in Britain who are increasingly aware of the capability and limitations of

'Companies are seeing the application of robotics more in terms of manufacturing systems rather than as an answer to a particular problem. Production engineering consultants are also playing an important part in this," says Mr David West, of Unimation.

However, around 60 per cent of the company's sales in the UK are for one or two robots, indicating a wide variety of nsers within Industry, and this is welcomed on the basis that the market is developing across a broad spectrum.
The Telford plant is now pro-

month, of which slightly more than half are sold in the UK and the rest are exported to the Continent. The workforce has increased from 25 in 1976 to more than 100 and reliance on the U.S. parent has been virtually eliminated apart from some research and development

The next significant stor

UNIMATION the American-owned industrial robots manu-facturer which bas a growing and its latest model has an inbuilt capability to use the additional tools when available. We are ready for these ancillary technologies to catch up with us" Mr West claims, pointing out that they are now feasible hut uneconomic because of their bigh costs, "One can teach a blind man to do a lot of things" be adds, indicating that conventional

robots have a long way to go in terms of capability. He believes that companies using or thinking of using robots should do more research into product bandling since it may be counter-productive to lose the orientation of a component after it has been handled by a robot by merely throwing it into a bin.

### Wide interest

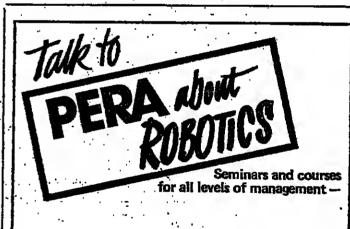
Although Unimation unwilling to indicate which sectors of industry are introducing robotics fastest - apart from the more obvious ones such as motor manufacturing it seems there is far wider interest than is generally realised. Significantly, the company says that the range of its Britisb customers is wider than those in the U.S.

important aspect of Unimation's work at Telford is in its newly launched systems division, which was seen as necessary to provide ancillary packagea for particular robot applications. A number of independent companies are also springing up to provide this kind of service, a trend wel-comed by Unimation on the basis that it stimulates additional husiness. But it believes that the technology involved had limited the capabilities of smaller concerns.

Unimation makes no predictions ahout sales but points out that it took 10 years up until 1972 to aell its firat 500 rohots, ducing around 15 machines a been sold recently in only 24 whereas the same number has

The basic cost of a Puma robot is now around £23,000 crease it substantially; one receot sale, amounted to £125,000, although this was regarded as unusually high.

Lorne Barling



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Thurmaston, Leicester. Tel: 693396 (0533) Telex: ATMEN G 341837. Paul Betts reports on the deluge of new ventures in America's robotics industry

# U.S. equipment suppliers rush to win market foothold

THE ROBOT bas come of agein America. In recent months, an impressive cast of American corporate giants have announced a deluge of new ventures in the nascent robotics

General Electric, Westing-house, Bendix, United Technologies, General Motors are allscrambling to position themscives in a market which is expected to grow into a multihillion dollar business by the end of the decade. And now. even more significantly, IBM, the world's dominant computer company, has become the first computer company to enter the

When IBM does something like this, it rings a big bell and the husiness take on a wbole new meaning, says Mr Peter Wright, an analyst with the Connecticut-based Gartner

"The move is probably more significant for the industry around for a good 20 years, the than for IBM's bottom line. As first generation of hulking, big the first company to contraptions have been replaced.

announced its entry into the fledgling industry at the end of February with a one-arm relatively low-cost program-mable robotic system that is linked to IBM's recently introduced personal computer and which will become available in the market towards the end of this year. Moreover, IBM also sald it is expanding marketing tests of a more sophisticated robotic system called the IBM

### Wide applications

The two IBM robots are general purpose systems offer-ing a wide range of applications for the manufacturing sector from precision assembly to electronic parts insertion, packing, unloading and loading. The robots have some interesting features. IBM boasts that its AML language is unique in that it enables the robot to recalibrate itself automatically. The larger robot also comes with optical and tactile sensors which munitor the robot's operations.

But it is not so much the perform that have surprised the the company presses ahead with industry. It is the decision to its own in house research and move swiftly that has impressed manufacturing efforts." even the most seasoned IBM. But why the burry? The walcher. Twenty, years ago. American robots market is still. IBM was slow to react to a in annual sales at least, small dominated the robotics market phenomenon which was to potatoes. It has nonetheless in the U.S. These include sweep through the entire electronics and the control of the con computer. The company's year, to \$100m in 1980, and to failure to enter quickly the fast-growing minicomputer market allowing a new generation of despite the current economic the Digital Equipment Corpora-tion, in gain a dominant share spending plans of American of the field is regarded as one of the biggest mistakes that IRM has ever made, IBM clearly does not want to make the same.

For some time, computer companies have been expected to enter the robotics market.

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Although robots have been computer-aided manufacturing around for a good 20 years, the game," says Laura Conigliaro, first generation of hulking, big who follows the robotics incontraptions have been replaced dustry for the Wall Street announce a rebotics system, by a new breed of smaller, more securities firm of Bacha Halsey IBM is likely to proper the sophisticated robots controlled Stuart Shields industry to take a new look at by microprocessor brains and Mr Wright of the Gartner was a new look at by microprocessor brains and Mr Wright of the Cartner was a new look at by microprocessor brains and Mr Wright of the Cartner was a new look at by microprocessor brains and Mr Wright of the low camera eyes. The robot, after glant all, is a computer with mech-to the anical arms and gripper hands. It was thus simply a question of time before a computer company announced its own line of

> IBM bad been dappling with robots for several years. Its RS-1 system is the fruit of 10 years of research, the company says. But to come to market ahead of the pack, IBM turned to a Japanese manufacturer, Sankyo Seiki, to build its low cost IBM 7535 robotic system.

This reflects a significant change in the way IBM now does business. As Mr Wright of the Gartner group put it:
"IBM in the past bas never sold: products that it doesn't actually. manufacture. But the company bas become increasingly flexible and has been turning to outside companies in recent months."

Indeed, IBM last year started selling a low-cost copier made by Minolta of Japan. Its personal computer introduced last summer contains several products made by other manufacturers. "By turning to outside vendors, this expedites the time for IBM to bring products to market," Mr Wright adds. the company presses ahead with

computer opstarts, in particular slowdown which has had spending plans of American manufacturing companies.

The real stakes are not so

much in robots but in the whole computer-aided design (CAM) and computer-aided manufactur-ing (CAM) industry.

"IBM clearly wants to posi-

group says that "with its low cost robotics system, IBM is bringing its personal computer not only into the office and the home but also in the factory."

IBM's move into robotics, which, according to Mr Conigliaro gives credibility to the infant industry, will help IBM maintain a position of leadership in this new market by establishing an early footbold and presence before com-petitors such as Texas Instruments and Digital Equipment (both believed to be working on robotics: systems of their own) enter the fray. It also adds an entirely new dimension to the whole computer-aided manufacturing industry which will shape the automated factory of

### Three groups

the future. .

With IBM entering the robotics market, the industry has now basically been split into three groups. At one end there is a computer industry (with many more poised to enter the market) which intends to capitalise on its computer technology to forge itself a major presence in the field of industrial automation of which robots are only one, albeit highly visible component.

At the other end there are the traditional machine tool manufacturers which have long more than \$55m last year and currently has about 39 per cent of the U.S. market and Cincinatti Milacron, the country's largest maker of machine tools, which had a 32 per cent share of the \$155m U.S. robot market last year. (In terms of the world market, the Japanese continue to be the dominant robot manufacturers.)

In the middle of the U.S. market, there are companies such as General Electric and tion itself as a leader in the Westinghouse which are proposing to offer the manufacturing sector what they call "complete solutions" to factory automation.

General Electric bas made no secret it wants to become the leading supplier of automated

"Our strategy is to become the number one integrator of factory automation and the number one solution producer," says Mr Alex Beavers, the manager of strategic planning and development for GE'a industrial electronics business. "Everything in the factory environment will be smart . . . the use of new computers in the factory environment will

be the real pudding," he adds. And so, GE bas embarked on a grand scheme to provide all the solntions required for total factory automation. "Sitting in the middle we

feel we have a strategic advantage with no vested interest in one computer bardware, for example," be says. GE has already invested more than \$500m and intends to spend another \$250m in the industrial automation business.

The company has been assembling all the blocks during the past 18 months to become a dominant player in this market Indeed, GE boldly says it expects to capture 20 per cent of the projected \$500m U.S. robotics market by 1986 and we are shooting for 30 per cent of a possible \$2bn North American market by 1990," according to a GE official. To establish itself in the CAD

husiness, GE acquired last year Calma in a deal worth up to \$170m. It also acquired Intersil for \$235m, a leader in complementary metal oxide semicon-ductor technology involving withstand heat and electrical distortion on the factory floor.

Last winter, it formed a joint venture with Structural Dynamics Research Corporation to add computer aided engineering to GE's mosaic of factory automation offerings. The cad/ cam business alone, GE claims, is growing in the U.S. at an annual rate of 20 per cent and is expected to reach \$1.1bn by

GE is also in numerical controls, and is currently develop-

controllers, in optoelectronics (computer directed inspection systems that use solid state cameras for quality control and which will enable robots "to see"), and in a bost of other areas connected with industrial

In the specific field of robots, General Electric (which likes to say U.S. business faces three choices for the future—automate. emigrate or evaporate," already offers 11 separate models including material handling are welding spraying and other process robots. This follows a string of licensing agreements with the former axis powers: Italy, Japao and Germany. These manufacturing agreements involve the robot technology of the Itahan Dea company, of Japan's Hitachi gronp, and just recently of Germany's Volkswagen com-

GE has also recently unveiled another important component in its factory automation strategy. The new product enables GE to "link the whole orchestra together . . . allowing electronic equipment to com-municate." The new component, a communications network, called GEnet, ties together all the other pieces in GE's factory

The company, which turned to Italy, Japan and Germany to establish an early presence in the emerging robot market, also plans to introduce its own advanced robot in 1984.

With far less fanfare, Westinghouse Electric is approaching the factory automation market much along the lines of its traditional rival, GE.

### Long-term aim

Mr Tony Massaro, the general manager of Westinghouse's Industry Antomation Division. outlined at the Detroit Robotics Fair the company's long-term

This, be said, "covers the entire spectrum of factory automation and includes: processing information through computer aid design, computer aided manufacturing and computer aided testing: productive machinery including robots, machine tools and material handling equipment; and the communication links that connect these Islands of auto-

Like GE. Westinghouse is making a major commitment in robotics. It is currently workdevelop a new generation of robots with "artificial intellince" giving them the ability see, feel and (believe it or gence' not) think.

It recently launched three robotic systems based on licensing agreements with Itatian and Japanese robot manufacturers. The Westinghouse 5000 robot system is based on a robot made by Olivetti of Italy. This system designed for high-speed, assembly of components.

Another system, the series there is already speculation of tendency to apecialisation by 000 adaptive welding robot, is a "stars war" looming ahead application." Few companies, help us regain worldwide 7000 adaptive welding robot, is leadership with machine tool based on technology from leadership with machine tool based on technology from builders, perbaps even the Komatsu of Japan. The third Japanese." in programmable system the so-called series 4000 precision pulsed welding robot, is also based on Japanese technology from Mitsubishi electric Corporation. Like GE and IBM for that matter Westinghouse has turned to foreign manufacturers to speed its entry in the market. It is also about to introduce two of its own rohots this year bringing the Westinghouse

> .The company displayed two prototypes of its own two robots at the recent Detroit Fair: the series 1000 and 2000, as they are called, are compact partshandling and asembly instru-

family to five.

house rushing into the market,

of companies entering the embryonic robot business," says Mr George Powch, who heads the rebotics division of Bendix, ponent, machine tool and engineering concern. " And it is safe to assume that a shake-out is inevitable."

tions, iocluding machine tend-ing, assembly and welding. Initially, the Detroit company

With bigh rolling players Mr Poweb warns there will such as IBM, GE and Westing be "considerable rationalisation

a "stars war" looming ahead in the robotics industry.

"There is considerable interest and speculation concerning the mushrooming number Detroit-based car com-

Bendix recently introduced two beavy duty general purpose robots for 100l-bandling applicais concentrating in the heavy

manufacturing market. occurring in the industry with a

claims, will bave the capacity to cover all, let alone most of the bases.

United Technologies, for example, has so far approached robotics by concentarting on a specific market. The U.S. conglomerate owns a Dutch company called Steelweld Robotics which manufactures robotic equipment for several European car makers including, among others, Peugeot. Renald, Audi and Ford of Europe.

The company has now begun a major marketing drive to sell its robotic systems to North American car makers, It has signed a licensing agreement with a West German robot manufacturer, Nimak-Machinen Automation of Wissen, to extend its Dutch subsidiary's

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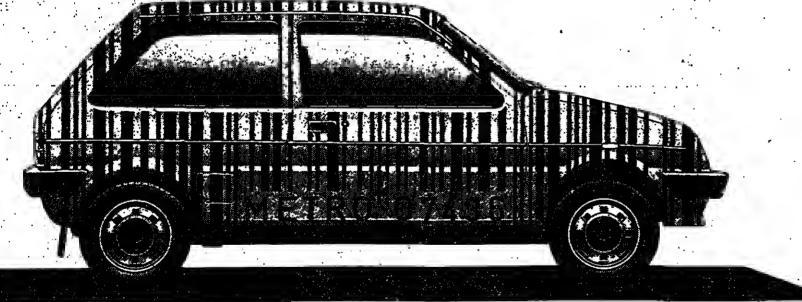
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### **NON-CONTACT INSPECTION**

PRODUCTION AND INSTALLATION OF ELECTRO-OPTIC SYSTEMS TO REDUCE COSTS AND INCREASE RELIABILITY OF ON-LINE AND OFF-LINE QUALITY CONTROL



# The impact of factory automation on jobs is insignificant so far, says Ian Hargreaves

# Learning to live with the robots

CONSIDERING that the closest systematic effects" of this new technology.

A bibliography compiled by the Department of Employ-meot on the subject already runs to 34 pages, with titles such as "When the robots take over — what's left?" — "The

chips are down and Is a machine after your job?" The "microclectronics monster" as Giles Merritt calls it io a book which surveys much of this academic sci-fi, is variously forecast to gobble up hetweeo a third and two thirds the occupations around which our industrial and com-

mercial society is formed. Set against these epic exercises in guesswork the reality of the employment impact of cobots and other forms of factory automation so far are rather insignificant. Even if every robot in operation had claimed ten johs-the most pessimistic analysis available — the loss of 250,000 or

so jobs worldwide would bardly attract attention. In any case, it is more likely that so far robots bave created enough jobs in their own design and manufacture to offact the two to four jobs per robot more aoher European analyses suggest have baen displaced where they are used.

### Few Luddites

The first thing that has to be said about labour's reaction to automation is that there ia no evidence in the past ten years of significant reasstance to technological change, as such, in the manufacturing sector. There may bave been obstructiveness over terms, manning levels and demarcation, but very little of wbat is usually misnamed the Luddite spirit.

Behind this fundamental acceptance of technology, how-ever, lie many different

In Britaio, for example, much. success effort has gone into persuading unions to draft model "new technology agreements" as the hasis for negotiations. There are probably between 100 and 200 such agreements at company level and a University of Aston survey of a sample of them suggested that about half are in engineering and that, significantly, nearly all of them are in areas organised by whitecollar unions, such as offices or

design departments.

Their clauses vary widely, from general statements of principle to detailed agreements on job security and remunera-tion. Most of them have appeared since 1979, when they were recommended by the TUC In its important statement Employment and Technology.

None of the agreements, however, has come close to the model eovisaged, for example, by Tass, the white-collar section of the engineers' union. The Tass draft agreemeni states that acceptance of new technology should be accompanied by agreed progress towards eliminatine syslematic overtime and towards a 25-hour week.

In practice, Tass members, who are at the heart of the revolution in computer-aided design (CAD), bave agreed in spite of their union's advice to establishing new regimes of

of the union's more successful use of video display units. bargains because a demand for The Scandinavian countries shifts was resisted, provided bave also created a legal framecompensation of a weekly pay supplement of between £2.50

The fact that the white-collar lems. The national council of the AUEW engineering workers section recently passed a resolution warning Tass off its terri-tory and stating that machine. tool operators should be given control of the programming of

and £4.50 per person in return.

BL's Longhridge plant, but the war over control of computer tapes is far from over in Britain's engineering Industry.

In most of British industry, bowevar, new machinery, where it can be afforded, continues to arrive and be subject to negotiation io the traditional way. The trade union research unit of Ruskin College, in a study of four cases, three in manufacturing industry, found that management told the nnions very little about their plans for technology and that when new machines were installed, nego tiations tended to occur after the event with management playing upon the weakness of divided unions at a time when the recession has given man-

collective bargaining. Mr Tom Brook, executive secretary of the British Robot Asacciation .also tells horror stories of robot manufacturers being asked to makec landestine visits to the shopfloors of potential customers in order not to upset the workforce He agrees with the Ruskin Report and with every trade union federation in Europe that early consultation is essential to

BL IS one of Europe's largest

users of robots and advanced

antomation systems and the

Metro line at Longbridge is

the showpiece of its effort.

1980. Longbridge has quite simply transformed its per-

formance and is expected this

year to produce 250,000 cars

with 9.500 workers, compared

with an ontput of 145,800 cars

from 16,800 men in 1978.

Absenteeism is down from

According to Mr James

Donaghy, who is in charge of

tha Metro project, tha founda-

tion of success was a laborious

exercise in consultation, train-

ing and joint planning which began over three years before

Although helped in the

iultial stages by the existence

of a company-wide worker participation framework —

unious in protest at cut-hacks

—Mr Donaghy says the
smooth, almost dispute-free

abandoned by the

the line started moving.

to about 7 per cent now.

per cent pre-Metro.

Since production started in

agement a whip band in most

most workers have so far come switches to two or three-shift where labour relations are more Autoworkers Union. to the world of automation is working days in order to maxicentralised and rigidly struct in Japan, automation is working days in order to maxicentralised and rigidly struct in Japan, automatically actions to the working days in order to maxicentralised and rigidly structure. the workplace drinks machine, mise the usa of the new equiptit is remarkable bow much bas ment and to increase computer been written about "the social access time. A recent deal with logy, especially on the establishments of the social access time. A recent deal with logy, especially on the establishments. Nor is there any sign GEC Rectifiers, considered one ment of codes of practice for the of resistance to the high level

> work for their endeavours and in Norway and Sweden, employers contribute to the costs cent of Japanese manufacturing of "worker consultants," who workers work shifts, against unions are running faster than advise the unions on complitheir manual counterparts is, cated technological aspects of however, causing some prob- change. Sweden's system of codetermination has absorbed the component of technological change relatively easily.

In West Germany, the works councils which exist by law in all but the smallest firms, have control of the programming of taken on the role of discussine CNC machine tools as a right, technological change, although This principle was adopted at as unemployment has bitten, there is some talk of dissatisfaction with a system which keepa discussion of technology in the consultative mechanism of the works council and outside the system of actual negotiations. IC Metall, the large metalworkers' union, also has an experimental, part-Govern-ment funded team of advisers on antomation designed to assist local trade unionists with technology peoblems. This is part of the federal govern-ment's "humanisation of work"

### Acceptance

Few other countries can match the systematic approach of the Germans and Scandinavians, although in Italy, the 1979 round of contract negotiaproduced sweeping acceptance of Information disclosure clauses for over 6m workers. In France, there has been

little more than talk. opposition to automation hy some unions, co-operation is now the order of the day and,

All change on the Metro line

performance of the Metro line demonstrates the fact that

communication at the local level is well-established and has been unaffected by the

collapse of the corporate framework.

That communication la-

voives management allowing

two weeks' consultation time

-a week for talk between

management and sbop stewards and a second for

consultations with operators

whenever manning arrange-

From the ontset, the Metro

has benefited from, in effect,

a team or module structure on the line, which was

developed following visits hy

BL craftsmen to advanced factories in several Encopean countries. These visits also

beiped create what is in effect.

in spite of the jungle of union

on

changed.

A team

In those Enropean countries tions for members of the United power shifts. In Japan, automation has

se of video display units. of sbift working which bas The Scandinavian countries accompanied this acceptance of According to

technology According to figures from the European Trade Union Institute, 37 per workers work shifts, against 22.3 per cent in Italy, 20.2 per cent in Germany, 19.5 per cent in France and 18.3 per cent in the UK.

For the individual worker, wbether unionised or not, the advant of automation can maan a drastic change in the type of skills he requires\_(to\_"skills based upon analytic or logical ability rather than experience in the words of John Evans of is a definite de-skilling process which, the unions fear, will lead eventually to a polarisation hetween the highly-skilled jobs in the developed world and the mass, low-skilled work which will be farmed out to low-cost countries.

Whether these changes will lead to more or less joh satis-faction depends upon how the mix of jobs is organised. Oliverti, according to Mr Evans, t-chnological change was used to negotiate a switch from flowline to modular assembly, partly in order to make the hourly paid work more

interesting.

For trade unions, the challenge is to pursue their tradi-tional concerns of pay, joh security and safety, while not losing sight of the broader opportunities to pursue grander objectives of more work shar-

Their higgest peoblem is that In the U.S., where the early in a world dogged by recession, postwar years saw systematic when capital investment in new machines is constrained anyway, the unions suffer a loss of bargaining power. Where manchastened by foreign competition, robots have come to weakness by forcing in techno-Detroit without even bringing logical chaoges without dialogue significant financial compensa-

part of the plant's operations.

On the robots, for example,

tha engineering union (AUEW) and EPTU (Elec-

tricians' union) men work sida by side as maintenance

crews and men from either

union ara allowed to carry

out the crucial re-program-ming activities. "There's no doubt that we are as good as the best in Europe," says

Mr Donaghy. In planning the project Mr

Donaghy says management overestimated difficulties with

the robots themselves, which

like all the other automated

systems on the Metro line

He has, however, had more

trouble with the computer control systems of the plant's

overhead conveyors, which

he feels have only been over-

come hecause of the sophisti-

cated software engineering back-up available from the

BL Systems division. "Some

are performing specifications."

Even in Japan, according to laid.

Mr Joji Kato, deputy director of the Productivity Research forthcoming paper; new tech-Institute, harmonlous relations nology can be used to achieve over new technology would not a more egalitarian structure of survive a loss of economic industrial society or it can be growth. He also argues in a used to increase centralisation sure for more sophisticated it is not technological."

World Out of We of technology will increase pres-

democracy in the 1970s were ovar-ambitious, the evidence

change have simply not been

As John Evans says in a forthcoming paper; new techrecent article that the advance and polarisation. The choice is a social and political one and

forms of industrial democracy.

In Britain, perhaps because the blueprints for industrial democracy in the 1970s were in the soft industrial democracy in the 1970s were in the soft industrial democracy in the soft industrial democracy. ovar-ambitious, the evidence tronics and Society. For Better suggests that most of the lines or Worse, by John Evans (Perof communication necessary for gamon cd. Friedrichs and the smooth implementation of Schoff).

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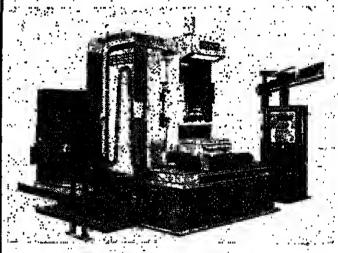
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### affiliations in the British engineering industry, an effecsuppliers promised more than they bad the technical abilify tive two-trade system on any to back np," be says.: A revolution on the factory

CONTINUED FROM PAGE 1

machine tool control world." The development of computer numerical control (CNC) was the major step forward. Earlier numerically-controlled (NC)
systems, based on hard wired logic, were inflexible, difficult to program and of dubious

reliability.
These NC macbioes were controlled by a punched tape; instructions for the movement of the drill head or cutting tool coded into the tape and read by sensor iocorporated

into the machinery.

Modern CNC machines still retain the punched tape but only as a cheap and comparatively cobust memory sys-tem—once the instructions on the computer itself controls the operation of the machine tool.

facilities to be provided which of the worst-ever recessions wired NC; linear and circular tage of the new manufacturing interpolation, switchable inch/ methods. metric read-out and program-niting, wide ranges of look offsets, spindle speeds and feed rate over-rides.

Mr A. A. Lodge, formerly chairman of the numerical engioeering society, points out:
"The modern CNC system represents a much lower proportion of the overall machine the prospect of combining CNC tool cost than was the case with machines with what is certain bard-wired systems.

"This fact, coupled with the vastly improved reliability resulting from developments in the electronics industry and the flexibility provided by manual data input and editing facilities is benind the explo-aion in CNC installations which has occurred over the past two

or three years." The armoury of numerically- lies with Japan. controlled and "Intelligent" A stage that has already been machinery now available to the reached in Japan — and to manufacturer includes NC and CNC lattice, cutting machines, other countries is the linking is co

boring, drilling and tapping machines; it includes machining centres, massive machine tools equipped with multiple tools to carry out a aeries of operations on all four faces of a casting and computer controlled part changing; and it includes the machining "cell," the hasic unit of the flexible

manufacturine system.
Through GE and Fanuc, the
U.S. and Japan were in the
forefront of the CNC revolu-

In Germany, companies such as Pitter, Cildermeister, Max Muller and Index were also in the van through a far-sighted agreement between Fujitsu and tem—once the instructions on Siemens which gave the the tape hie been read into the Germans access to the Japamemory of the CNC machine, nese company's auperlative control technology.

operation of the machine tool. In Britain, manufacturers
This inherent compuler power were hit by the twin pressures
enables an extensive range of of what turned out to be one were not possible with hard- and a reluctance to take advan-

> To be aure, some of tha earlier examples of integrated systems—machines grouped together to handle specific tasks with maximum efficiency -were disastrous; today, bowever, nobody doubts the value of CNC machining and many companies are eveing hopefully to be another major element in

> the factory of the future, robots. Since 1975 or so, UK machine tool manufacturers and suppliers have caught up rapidly and most believe there is little to choose between the level of the most advanced technology seen io the U.S., Europe, Japan or the UK.

But the weight of experience A stage that has already been a lesser extent in a number of known as flexible manufacturing systema (FMS) and it is indeed these that are generating most factory automation. of the excitement now. The concept means the cre-

finiah completely a part fcom raw metal, without human inter-Every country has companies

specialising in FMS—in the U.S. it includes Cincionatl and Kearney and Trecker, in Japan Yawazaki, in Germany, Pitter. In the UK, the separatelyowned Kearney and Trecker, Marwin (KTM) part of the Vickers group baa heen responsible for putting in some of the largest FMS installations, while

are among the newcomers. Robots are still comparatively new on the shop floor. Indeed, to make componants in-house, there are aerious arguments in manufacturing circles over whether they are appropriate to the factory floor. Companies such as Unimation in the U.S., ASEA in Sweden and Hitachi-Seiki in Japan have no doubt-

the 600 Croup and CEC Factory Automated Systems Technology

variety of major applications, and a sense of feel; some of the anot welding, spray paintine, more foresighted manufacturers machine luading and unloading, helieve that an "unmanned facstacking and pallelisine. Now tery" could he a reality within they are are being used for five years, rather than by the complex jobs such as assembly, turn of the century.

means assembling commonents able: from different manufacturersit is commonplace, for example, to see a Unimation Puma mnving narts between machine tools from the U.S. Sweden and West Germany, hut there is an increasing trend towards turnkey hitherto unheard of economies

factory of the future together the new technologies soon will

of equipment into what are tions - and it is chiefly anfiware problems that are delaying more rapid implementation of The software is complex and

that is why companies such as IBM, Sperry Univac, Honeywell, NCR. Hewlett Packard and ation of a group of machines, IBM, Sperry Univac, Honeywell, serviced by rohots or computer-NCR. Hewlett Packard and ised parts changera, and able to other with great software experience believe they have a new future in the factory. IBM itself is one of the leaders.

In the automated assembly of electronic devices.
The UK Government has recognised. the importance of establishing its Flexible Manufacturing Scheme

on June 8, this year.
FMS may change the face of

contract machining; a small jobbing shon equipped with modern equipment could serve the oeeds of many customers. Shops which will not make the change, will simply vanish. Large manufacturers will cease relying instead on modern.

aophisticated sub-contract ahops, many believe. Large engineering concerns will be able to make small batches of components as cheaply as large. The pace of factory antoof the outcome of that argu- mation is quickening; already, significant steps are being made Robots have been used in a in research to give robots vision

The creation of a "cell" of Most of the computer intelli-machines and robuts usually gence needed is already availthe electromechanical nrohlems have mostly been solved. Janan and Scandinavia have shown the way forward in ighour relations.

This revolution has turned industry on its head and offered installation. of manufacture: those com-The "clue" that will hold the names which do not embrace

POLITICS TODAY

# A last fling with the unions

By Malcolm Rutherford

THE LABOUR PARTY this week published its manifesto for the next general election. But it is a measure of the party's decline in the opinion polls and of its estimation by the media that hardly anyone

Actually, the first statement is ment published by the TUC.
Labour Pariy Liaison Committee and called "Economic Planning and Industrial Demoeracy" is not an election manifesto-or at least not yet. But there is little doubt that it will form a large part of it. It is also the product of years of work between the TUC and Labour Party leaders. The Liaison Committee was set up to oppose Mr Heath's legislation on industrial relations in the early 1970s and has continued in being ever since.

As the election approaches, this is the document to which people, including civil servants, will turn to see what a new Labour Government might be like. Perhaps with a mixture of surprise and relief, they might come to the conclusion that it could be lived with.

Suc

MARS

First, a few general remarks. The Labour Party has now tied itself more firmly than ever to the trade union movement. Far from deciding that the unions are a declining force and that too close an association with them is a political liability, the party has chosen to stake all oncementing the marriage.

There is the particular stamp of Mr Michael Foot here, but be is not alone. Mr James Callaghan, the previous Labour leader, tended to go in the same direction.

The corollary is that the unions have staked a great deal on the marriage with the Labour Party. But one suspects that they have done it for one election only. If Labour does badly, not only may its decline become terminal; the unions may also decide to become less identified with one particular political party, as many of their members bave already done.

week is therefore the last fling policy. of the doctrine that the unions

Some of the sillier statements in the document can be dismissed at once. For example: "Many industrialised countries

. . . recognise that the concept of the 'free market' is an irrelevance in a modern and complex society." That was not the case of the France which gary, which is bursting to move

the free market way.

Again, take the final paragraph about confidence. "The confidence we seek is not the chancellor of the Exchequer when the pound is weak. Tell it was to Mr Denis Healey, who put his name to the document. his name to the document.

Much of the rest, however, is a serious statement of the alternative approach to the economy: the one which relies on planning rather than market forces and which depends on co-operation between govern-ment and unions and between government, unions and employers. The word "tripartite" occurs repeatedly.

The document also draws heavily on the expenence of Labour governments over the years: from George Brown's abortive Department of Econo-mic Affairs (DEA) onwards: The central theme is that "planning" has never been properly planned in a way that it is claimed to be in (say) France or Japan.

There is a great deal to back it up. The DEA failed, most observers would now agree, largely because it was overpowered by the Treasury. But there have been no great advances since. Arguments over public expenditure have resumed their pattern of battles between the Treasury and the major spending departments. There is no overall view. Witness the recurrent fights over spending on defence or the present palpable absence The document published this of any long-term transport

The Liaison Committee wants and the Labour Party can work a new Department of Economic together to achieve economic and Industrial Planning. It is success and social harmony. The not just the DEA revamped, real question is: can they Paragraph 73 of the document deliver? We shall come to that, states what might be accepted by either the Tories or the Social Democrats have produced have a policy agreed with the



"It was ironic that . . . they refused to take questions on the rail dispute." Len Murray, GMWU general secretary David Basnett and Michael Foot at the conference to launch "Economic Planning and Industrial Democracy"

pose that public expenditure planning (the PESC exercise) should become in reality the collective exercise at Cabinet level which it is presently only in name. In addition, PESC should be reformed to carry out the role for which it was originally designed; the medium-term planning of public expenditure to provide real resources to social and economic

needs."

If you ignore the final flourish (what are "real" resources as distinct from "unreal" resources?), that is a very resources?), that is a very sensible statement about the machinery of government.

Labour thinking has moved on from the past: for instance, the updating of the Bullock Report on employee participation in company decision-making. The emphasis is now on participatioo at all levels and much greater access to information. Readers may also be surprised by the stress on the need for industrial change, more training opportunities and the promotion of new technologies.

proposed might work in the electronics industry. It is cer-tainly not written from a hasis

Social Democrats: "We pro- anything like such a compre- unions ready before the elec-

The political point, of course, is the commitment to the reduc- the sheer bureaucracy that the tion of anemployment - to below 1m within five years. The document says that, immediately oo coming to office, a new Labour Government will "pub-lish a short statement on the broad comomic strategy needed to achieve this objective." The statement would be discussed with the new National Planning Council, a development of Neddy, and would relate to the first of the proposed annual

Again, this is a sign of how the Labour Party bas advanced. The idea of national economic assessmeots is not so very different from what the Tory Party put forward in "The Right Approach to the Economy" before the last general election, nor from the old German practice of "concerted actioo," on which the Tory thinking was then based. Some of it lingers on in the Treasury.

It is essy to pick holes in Anyone who doubts the all this. There is the glaring expertise that has gone into the omission of an incomes policy document should read the on which previous attempts at appendix on how the policies co-operation between Labour all this. There is the glaring gree of participation in its de-omission of an incomes policy cisions that is now being on which previous attempts at offered. They might just want co-operation between Labour to earn their money and go governments and the unions bave come to a sticky end. Mr Foot says that be is still workof ignorance, nor even ideology. ing on it, though one should Neither the Tories nor the not doubt his determination to

Other objections might be to proposed planning machinery would create, though again one

to the fashicoable trend for deceotralisation. Equally, there is a teodeocy to idealise the French and Japanese models while ignoring the fact that they sometimes come under question in their own countries and that they are the product of quite different "national economic assess social systems. If everyone who ments" of what the economy runs industry, commerce and can afford, and bow. government goes to the Univer-

sity of Tokyo, it is not surpris-

should note the way that the Liaison Committee has bowed

ing that they have certain affinities, or at least a network. No less striking is the virtual absence of any reference to the U.S. America bas, usually, a fairly successful economy, but without planning. It also has rather different labour laws, and more business schools.

Possibly a more quibbling ob-

jection is that it is not wholly clear that people who work for a company really want the de-

The fundamental test, however, is credibility. Can the unions and the Labour Party persuade sufficient of the electorate that they have finally got their act together? It was ironic that when Mr Foot and Mr Len Murray, the TUC General Secretary, were presenting the Liaison Committee's report to the press, they refused to take any questions oo the rail dispute, which is a classic example of industrial relations breaking down-between the unions in-volved, between the unions and

of strength. It is only part of an excuse to say that the Government also has no policy or, as Mr Mnrray said, that the onions will resume their responsibilities, when asked.

and between the unions, management and government: a

trial of weakness rather than

Thare must now be considerable doubt as to who the unions are—their leaders or their

Yet we should not forget the British electoral system nor the way that the political outlook can quickly change. The Labour Party could win the general election with little more than 30 per cent of the vole. Their fortunes could still improve beyond that.

Certainly, giveo the rail dis-pute and the health dispute as well as the unemployment figures, the Government's fortunes seem bound to decline. The argument is not against standing up to the unions. It is more likely to come to be seen as "standing firm for what?" On the railways the Government still bas no answer.

It also turns out that the rivalry between Dr David Owen and Mr Roy Jenkins in the Social Democratic Party will go on. Dr Owen is determined to resist any move that would commit the SDP to an "irreversible" alliance with the Liberals. Mr Jenkins thinks that the development of the Alliance is the best and only way of winning the election outright. Plainly, there are squalls to come.

So perhaps Labour still has a chance. The party could have an awful conference in tha autumn, but then concentration will turn to the long run-up to the election. The important point to note is that Labour is developing a policy which is a clear alternative to anything else which is at present or effort. which is at present on offer. A lot depends on the unions. "TUC, Congress House, Great Russe Street, WC1, £1.

Lombard

# A fresh approach to the EEC budget

By Nicholas Colchester

EVEN BEFORE they leave for priate. The cabioct is no hot their amply dimensioned holi- bed of European imagination. days, officials in Brussels are in despair at the thought of the labour inobility and job trainnext argument, in the autumn, ing. Money spent here would over the British contribution to not interfere with Mrs the EEC budget. It will be Thatcher's free markel philomore unpleasant than ever, they predict. It will distract and demoralise a Commission and Council of Ministers already hard pushed to arrange the promised entry to to the Com-munity of Spain and Portugal. Part—and only part—of Britain's cash problem with the EEC is that everybody has become so negative in his view of it. How can a British Governmeot, oot very interested in Europe, avoid paying bills for a common agricultural policy sovereignty or philosophy of the which does not bring it great British Government. There is benefit and pass them 00 to ample scope for a greater other members who are becom-ing steadily more determined not to pick them up? Put like that, the question is certainly a

### The challenge

It might be more stimulating to ask: what does Britaio want out of Europe? Can the British Government propose community programmes which will offset the EEC's excessive emphasis on agriculture and which will be of greater use to the UK than the CAP? This question is not of course a new one; it limit all forms of public expenditure. Nor is it an altruistic the economy question: Britain blatantly well-trodden wants more out of the Community and wants someone else to pay for it. The chief merit of this approach is that it conveys a more positive atti-

cabinet might find acceptable. foreign policy where appro- more palatable.

Yet take the question of sophy: it would help remove some of the friction and rigidity which prevents the free mar-ket policy from yielding switt results. European spending in this area would oil the wheels of whatever approach to economic policy a member state

Thatcherite or Mitterraodiste. Basic research is another could be spent without impinging too much upon the sovereignty or philosophy of the European investment in re-search at the "pre-competitive stage" — that is before the competing national industries take up the idea thus spawned and run with them.

There is no reason why European spending should not be regarded as an alternative channel for national public speoding rather than as an additional burden on Public Sector Borrowing Requirement. If one accepts that unemployment is a mounting burden on all European exchequers why should one not pool some of the required formed part of the ill-fated spending in a European pro-"mandate" to restructure the gramme? Perhaps nture con-EEC budget. It is just tentiously, I would pose the thoroughly unfashionable when same sort of question about all Governments are trying to investment in the transport system, in the infrastructure of the economy and even io the well-trodden field of regional

Whether in Londoo or in Brussels such suggestions tend to be received with apathy. The British Government is not tude to the Community than the interested. There aren't enough uoalloyed demaod for "money projects to make much of a difference, The Germans won't The challenge is to come up pay. The revenue base of the with suggestions for pro- EEC is too narrow. We've been grammes which Mrs Thatcher's through all this before.

It is true that a catalogue of This cabinet is nationalistic. It new Brilish proposals will not does not like public expendi-ture. It does not like loterven-reform and will not remove the tionist industrial programmes case for British compensation. controlled by bureaucrats, to But some evidence of British say nothing of Eurocrais. It interest in making more of the wants Europe to be little more than a free trade zone and a case more presentable and the forum for co-operation on next round of haggling a little

### Letters to the Editor

### Finding the right economic stimulus

From Mr Tim Congdon.

Sir - With the current worldwide recession by far the worst since the 1930s, Samuel Brittan is surely right to suggest in his Economic Viewpoint (July 8) that this is "not a time to run any risks in the side of defi-cient demand growth." But it is not consistent to urge both a demand stimulus and a 10 per cent limit on the growth of money GDP. A demand stimulus, if it means anything, must be followed by faster growth of money GDP than would otherwise have been the case. It is wishful thinking to believe that, merely by the announcement of good intentions, the Government can ensure that extra demand will be translated into real output rather than inflation.

The case for an interest rate. reduction rests oo the natural

rate of unemployment concept which Mr Brittan has so incidly

explained on many occasions. The theory based on this concept avoided. states that, when unemploy-This argument is not ambiment is above the natural rate, wages settlements will fall and inflation decelerate. In the 1980-81 pay round settlements were halved. Since then unemployment has risen and shows every sign of continuing to do so. It follows that wage settlements will drop further, exerting more downward pressure on inflation. In these circumstances, if

lower interest rates were successful in at least stabilising unemployment, there would be no serious and immediate infiationary risks. Moreover, stabilising the unemproyment total which its author has criticised should be the minimum at strongly and frequently in the which the Government aims as

substantial reductions would ob-viously be desirable if a resurin inflation could be

tious and certainly makes no claim to quantify the right "demand injection." The record of the last 30 years is that phrases like "a £2bn stimulus" and "a £5 boost" are unbelpful. The Government cannot guarantee that the impact feeds through entirely into ontput and employment.
Unless it does, there is no "stimulus" or "boost" to economic, activity.

Perhaps the most disappointing aspect of Mr Brittan's article is its relapse into naive Key-nesian vocabulary, a vocabulary

thinking and prescriptions. The suggestion that VAT and/or the National Insurance surcharge be cut by £3bn is crude fiscal reflation. It cannot be reconciled with the Government's objective to keep the PSBR declining as a proportion of national output. It also seems odd for Mr Brittan to be proposing fiscal stimulus when there is abundant evidence from nearly all the major industrial countries that big budget deficits make no contribution to economic recovery and are a tiresome nulsance in conducting anti-inflationary financial . poli-

been a return to Keynesian

Tim Congdon. Economics Partner, Winchester House, 100, Old Broad Street, London EC2

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Nationalised dissatisfaction From the Chairman NIFP

Sir.—I am writing as chairman of the Nationalized Industries' Finance Panel (NIFP), the members of which are the finance directors of tha nationalised industries. I wish to express the panel's dismay and disquiet at the current moves within the Institute of Chartered Accountants in England and Wales to achieve premature withdrawal of Current Cost Accounting Standards SSAP16. The debate which led up to

the issuing of the standard was, I think, lengthy and public and although not all accountants. fully supported the exposure drafts which preceded it, or indeed, SSAP16 itself, it is somewhat less than we in the nationalised industries would expect of a highly regarded professional institute for it to renege on a publicly stated objective to allow SSAP16 the agreed three-year trial period. When the nationalised industries chairmen's group published its interim code of practice on current cost accounting about 12 months before SSAP16, it was found to be invaluable to have had a period of practical experionce as a run-in to CCA.

The majority conclusion, drawn from those giving the accounting justified in feeling secure. No the three year trial period. The NIFP fully supports this over the benefits which they are experiences and offer a co- Luton. Beds.

who are to vote on the resolu-tion on July 29, whether in the public or private sectors to vote for the retention of the standard, since failure to keep the standard for the whole of the thrae-year period will surely be a retrograde step. We should have the courage and professional integrity to see the job through to its conclusion. After all, only when we have con-siderable practical experience of CCA can a credible professional assessment be made of amendments (if any) required to produce an acceptable stan-dard for use into the future. J. H. Smith. Rivermill House. 152 Grosvenor Road, SW1.

Shareholders'

Interests

From the Chairman, Wider Share Ownership Council Sir,-It is, of course, unfortunate that the latest target mittee on the Water Bill and of pension fund militants should. be the company which would probably be voted the best managed in the country. That, however, should not detract from the merits of their case. and your contributor Lombard (July 9) does Ill to express satisfaction at their failure to

make it stick. standards committee working majority of sharebolders is ever group led by Mr P. J. Custis likely to invoke the ultimate tained intact for fibe whole of directors all the more concerned to exercise proper moderation

It is largely upon the vigil-

ance of institutional investors that sharebolders have depend to: the protection of their interests, and the pension funds bave set an vample which we would like to see followed more widely elsewhere. If these efforts led every so often to the removal of a few directors in companies less meritorious than Marks & Spencer. shar-holders might bave every reason to be grate-

Edgar Palamountain Juzon House. 94 St Paul's Churchyard, EC4.

Control of the waterworks

From Mr Charles Simeons. Sir,-As a member of the Parliamentary Standing Comthe only MP at the time to support small boards for Regional Water Authorities, I welcome the Government's decision 10 years later to adopt that course. How can it be possible to have democratic control in a system which virtually knows no boundaries and is transferred over very great distances. As the slogan in the Cardiff convenience reminds us:

Birmingham. The proposal to wind up the National Water Council would to review the operation of sanction (but sole recourse) of National Water Council would SSAP16 after its first year, was that the standard should be revery fact should make the no central coordinating platno central co-ordinating plat-form which the officers from the RWAs can use to compare

finsh hard you are needed in

view and urges all accountants able to vote themselves without ordinated approach on a whole the approval of the share-range of issues, not least the holders. authorities. Executive powers should replace the present advisory role. In future presumably control

from Whiteball will replace the 400 strong Council. This may be too many, but supposing their strength were to be balved, could the Department of the Environment with its resources, from my personal knowledge, already fully stretched, really take on the additional work which the NWC has carried out in a fashion which together with the RWAs has earned the admiration of the international

water industry?
New powers will be given to
Whiteball which even the last Labour Government did not seek in the proposals contained in their Green Paper.

The real problem for the consumer lies in the level of water charges stemming not from operational costs, but the component, often exceeding 50 per cent, arising from interest charges including loans inberited from the former local anthorities and others who controlled sewage treatment.

I sincerely bope that in the process of dissolving the NWC the Minister will produce an authority with executive powers, to include the present elements rather than just throwing away the experience gained over the years in the belief that the Men from the Ministry know best, a fact which few of them would claim to be true.

Charles Simeons.

Companies and Markets

### **Associated** Newspapers halved at six months

THE COSTS mentred before the launch of The Mail on Sunday lo May were mainly responsible for a setback in interim profits at Associated Newspapers. The pre-tax surplus fell from £10.78m. to £5.4m in the six months to March 31 1982, on turnover £11.16m higher at £127.53m.

However, the interim dividend is meintained at 4.5p net-last year a total of 10.4p was paid from taxable profits of £16.24m. Half-year stated earnings per 25p

share are 6.4p lower at 9.2p.
Trading profits were down from £7.2m to £1.9m. But this was hefore sharply higher interest charges of £520,000 (£117,000) and a reduced contri-bution from associates of £1.81m (£2,06m). Investment income, however, rose from £1.63m to £2.32m.

A substantially lower lax charge of £2.62m, against £6m, left net earnings at £2.78m (£4.78m). After a gain from minorities of £4.00m, compared with a £38,000 debit, the available figure came through at £2.78m [£4.74m1]. Dividends again absorbed £1.37m.

### **Braithwaite** moves ahead to £929,167

Pre-tax profits at Braithwaite Co. Engineers show a rise from £808.569 to £929.167 for the 12 months to March 31 1982. Turnover of this bridge and construction engineer improved from £8.3m to £9.53m.

At the interim stage the directors expected scennd half profits would be similar in those in the first half, when the result slipped from £410,000 to £401,000 The net dividend is being raised from 7.7p to 8.1p with an

Increased final of 5.1p (4.7p).

After a tax charge this time of £85,500 compared with a preper £1 share were given as rising from 18.4n to 30.9p.

On a current cost basis pre-tax profits were shown as falling from £646,000 to £507,000.

### Grevcoat Ests. jumps ahead to £810,000

Taxable profits of property Investor and developer Grey-coat Estates jumped from £340,000 to £810,000 in the year tn March 31, 1982, on turnover £42,000 ahead at £934,000.

With carnings per 10p share stated higher at 3.4p (2.3p) the year's single dividend is being raised from 0.37p to 1p nel as

Tax took £291,000 (£128,000) leaving net profits of £519,000 t£212,0001. The pre-tax figure included a contribution from associates of £85,000 (£5,000

### BOWRING U.K.

Sales

Interest

**Net Profit** 

Profit retained

Overseas.

assets and liabilities ..

minority interests .....

Minurity interests \_\_\_

Interim Dividend .....

Earnings per share ...

implementation of plans for expansion.

Bowring UK has formed a new company, Bowring UK Marine Cargn, to handle the UK marine cargo insurance business which has been transferred from the marine division of C. T. Bowring and Cn. Husiwanect.

**Historical Cost Accounts** 

taxalion and minority interests.

Estimated taxation - U.K. .....

Profit before minurity interests ...

Interim Dividend per share .....

Profit before taxation, interest and

Profit before interest, exchange gain/(loss),

Exchange gain/loss on translation of foreign

Profit before taxation and minority interests ....

—Overseas.

\*Holders of 752,707 shares waived their interim dividend in 1331

In the six months to 30th April 1982, sales of £17.1m (1981 – £12.5m) yielded pre-tax profits of £22.251.000 (1981 – £1,170,000) and the Directors propose to pay an increased interim dividend of 20p

These results are excellent compared to those previously achieved at this stage but they should be viewed with contion in making projections for the full year. There are strong indications that the pattern will not follow that of recent, ears when over sixty per cent of profits were earned in the second half. We currently envisage that profits in the second half will be similar to those achieved in the first

six months. A significant increase in overheads is projected in the second half as a result of the

In the U.K., the first half has produced very good results from all four established companies, with particularly significant improvements in SSD and T.C.S., and performances well up to plan for our new ventures. Overseas, both major U.S. companies made further progress and results in France continued

to improve.

We have recently made several organisational changes to develop our management structure. Mr. G.A. Withrington is assuming worldwide responsibility for the co-ordination and growth of Eurotherm itemperature controls companies and is succeeded as chief executive of Eurotherm Limited by Dr. T. Simpson. A similar move with Chessell recorder companies sees Dr. G. T. Roberts assuming an overall role with Mr. A. Imrie-becoming Managing Director of Chessell Limited.

# Thorn EMI advances to £105.4m

FOR THE year coded March 31 1982 Thorn EMI has increased pre-lax profits from £94.3m to 105.4m, oo external lurnover of £2.44bn, against £2.23bn. A significant advance was made by the music division and the lighting operation showed a return to profilability, but the films, video software and leisure operation incurred a loss.

At halfway, taxable figures were up from £38.6m tu £45.5m. Profits attributable to ordinary holders rose from £60.2m to £66.1m for the year, after lax of £33.2m |£27ml, minorities and preference dividends. Earnings per 25p share climbed by 3.4p to 37.9p and the dividend total is maintained at 14.625p net with a final of 10.575p (samet.

A charge of £5.6m (£2m credit) for extraordinary items represented the estimated cost of withdrawal from certain business, less profit on sale of investments. Ordinary dividends again absorb £25.5m leaving retained profits of £35m, compared with £36.7m.

At the trading level, profits increased from £282.5m to £334.3m. Depreciation charged was £193.2m (£153.5m) and interest tonk a further £35.7m 1£34.7ml. Profils before interest were ahead from £129m to geographically as to: UK tinclud-

overseas £52.6m (£34:5m). A product analysis of turnover and pre-interest profits shows

respectively: consumer elec-fronics £685m (£557.8m) and £72.9m (£69.6m); nusic £486.9m (£411.5m) and £36.7m (£20.4m); films, video software and leisure £97.4m (£92.2m) and £10m loss (£2.8m pro6t); engineering £606.9m (£593.9m) and £19.6m (£29.3m): domestic appliances and retail £502m (£469.4m) and £21m (£16.7m); lighting £234.5m t 5220.1m t and £0.9 (£10.1m loss); terminated operations (£25.3m) and nll (£0.2m loss).

Sir Richard Cave, the chairman, reports that the management in several of the group's businesses has reduced capital. employed in line with the lower levels of demand and they have a more competitive cost atruc-ture. The UK lahour farce was reduced by a further 8.400 last year, but Sir Richard says the real benefits of the resulting improvements , io productivity will only become apparent as markets move out of recession. The group has continued to improve efficiency and to follow

the strategy of investing in two high-growth aress-home entertainment and high technology eogincering.

year's recovery by the music products and better manufactur-division has been followed by ing efficiency. a further ornfit increase. Significant improvement was arhieved in several areas despite a lack of growth in the market. The short-time working and further results reflect the heoefits of pre-reduodancies heing incurred. vious rationalisation measures. strong world-wide management and the growing development of

excellent reperioire. Demand for video recorders and the pre-recorded video cassettes again exceeded expeciations and this cootioues to be a buoyant busioess.

Thorn EMI Video Programmes consolidated its position as a leading UK distributor and has slso eslablished itself in Europe; the U.S. and Australia. But sulted in losses.

affected by shortage of orders from British industry. In addition, costs were incurred in rationalisation measures in the general engioeering and tech-ology divisions where prompt action was taken to reduce capital employed.

The central beating division

.The engineering side was

enjoyed helter trading con-ditions and the sas division In home entertainment, last benefited from both improved

Sales and profits of the electrical appliances division continue to be depressed with

The group's retail chain of

shops made progress with strong demand for video products although intense competition in the High Street for most other products reduced margins. Although the UK market for lighting products continued to decline during the year, the lighting division achieved a small profit as a direct result of the fundamental restructuring already underway at the beginning of the year.

Gross each flow for the year commitments made in earlier gross cash flow for the year years together with recent totalled £273.1m (£224.5m) and trends in the film husiness recapital expenditure smounted to £325.8m (£223.5m). An increase creditors and provisions for e year of £103.9m and tight control of stocks and debtors limited the increase in borrow-

lngs for the year to £32.1m. Net borrowings (after deducting liquid funds) at March 31 1982 amounted to £243.8m (£211.7m) representing 28.2 per cent (26.3 per cent) of total capital employed before deduct-

# Dowty expands £3m to £39m at year end

SECOND-HALF pre-tax profits of Dowty Group expanded by some way from its earlier trend, £6.25m to £23.44m and pushed although deliverles of certain the full year's figure, to March 31 products remained restricted,

E350.8ni. and trading pro6ts—E39.76m

The directors say that while the acrospace and defence sector seain increased turnover, with and £24.59m (£23.85m); mining recovery in margins in the second half, profits reflected the more difficult conditions earlier in the year and the cinsure costs of two smaller companies.

The mining and industrial divisions continued their modest recovery in sales margins over the first half, directors state, and performed particularly well in overseas markets.'

The electronics side recovered 1982. In £39.14m, compared with and research and development a previous £36.24m. Turnnver costs contioued at a high level. went ahead from £316.2m to A divisional split of turnover £350.8m.

A divisional split of turnover and trading pro6ts—£39.76m

£120.tm (£118.69m) and £10.03m (£8.03in t: industrial £37.53m (£33.21m) and £3.55m (£2.06m); electropics £26.46m (£25.86m) and £1.6m (£2.51m).

The directors feel that the volatility of world market conditions makes accurate forecasting increesingly difficult, but "with aggressive marketing and "with aggressive marketing and Net investment of £21m in strong management action to fixed and short-term assets and

control costs we expect to make £9.2m in working capital was further progress during the substantially covered by cash Current year."

They add that the group's

order book at the year end had increased slightly, but insufficiently to cover the rate of inflation. Inflation.

The directors and that The cash, some state of the year end, was accomperational efficiency on the plished within the group's ever, should ensure improved operational efficiency on the aerospace side, while the mining.

electronics divisions should all make steady progress, the directors state. Earnings per share are shown unchanged at 13.6p per share and the divideod is effectively increased to 3.7p (3.33p) with a final payment of 2.15p net. Net investment of £21m in

substantially covered by cash generated from operations. Net external horrowing increased by 15m, Isrgely to finance acquisitions, principally Polypac in

The directors and that the normal facilities.

Associates share of profits was well down at £3,000, against £115,000 and interest charges ounted to £625,000 (£324,000). After tax, £11.5m (£8,72m) and minority interests £118,000 (nil). the attributable proft was unchanged at £27.53m

low with a 5p rise to 138p.

# Good second half boosts Howden to £8.69m

ANTICIPATED interim report second half pre-lax profits of the Howden Group continued the rising trend of the first six months and figures for the full year to April 30 1982 showed an appreciable rise to £8.69m, compared with the £7.75m returned previously second half rose from last year's

£4.7m to £5.32m. Mr Norman Elliott, the chairman, expects another satisfactors profit performance in the current year. He says the group's order book is at a high level and liquidity will remain strang. Stated earnings for the 1981-82 year edged alread to 17.Sp (17.6p)

and the dividend is being slepped up from 4p to 4.4p nel per 25p share hy an increased final of 2.94p (2.67p).

I142.17m. Tax took £3.43m (£2.56m), minnrilies added £32,149

Industrial electronic control and monitoring

equipment for world markets

Interim Report 1982

(Unaudited)

Eurotherm International

ordinary debits of £472.181 t£264,000 t. At the attributable level profits slipped to £4.82m t£4.95ml, from which dividend payments will absorb £1.31m (£1.2m).

The chairman comments that

James Howden and Co had another good year and made a substantial contribution to gro profits. Airscrew Howdeo, which specialises In a sophisticated range of fan products and systems, was affected by the continuing lotercationel market recession and the cumulative effect of the Ministry of Defence moratorium. However, ha points out that the company bas entered ening order hook which includes cooling systems for the new British Army "Challeoger" Turnover of the group, an congineer and specialist in the design and manufacture of air, gas and fluid handling equipment, advanced from £115.24m to the condition of the condit

In Canada Brown Boveri Howden bad another successful year, making a significant contriminnrilies added £32,149 buttom to group profits and t£24,5101 and there were extra- Godfrey Howden, specialising in

> 30th April 1982 Six months ended

£,000

9,486

17,069

2,480

2,485

2,251

(440)

(488)

(27)

1,323

1,067

11.31p

(234)

(5)

1981 £'000

7,169

12,507

1,518

1,492 (332)

1.170

(300)

1200)

670

(10)

660

(161)

499

5.78p

(26)

aircraft environmental control systems and ground servicing equipment, made satisfactory

U.S. had a mixed year. Quahbin Howden results were poor and it was decided to discontinue its ectivities.

The Australian companies made a useful contribution to group profits, with Godfrey Engineering showing a greatly improved performance, and the South African companies had another good year. Group pre-lax profits on a CCA

hasls were £6.27m (£5.31m).

comment

Howden's pre-tax outturn of £8.7m was hetter than the

sn engioeriog company Howden has benefited from having around two-thirds of turnover The group's companies in the overseas but these figures S had a mixed year. Quahhin include a loss from Howden Group America. Capital expenditure at £4m was balf the comparahie figure and gearing has fallen 5 poiots to 27 per cent.
For the rest of the 1980's Howden sees S. Africa as the brightest spot with a great deal of work expected on coal fired. power stations. On the nuclear front, AGR contracts are set to make their higgest contribution to profits in 1983-86 but thereafter a lack of world demand for AGRs could well present some problems. At 138p the shares yield only 4.7 per reot—but then not many British engineering market had been expecting companies have had five years belying the shares off a 1982 of unbroken profits growth.

# Vosper falls to £0.8m

TAXABLE PROFITS of Vesper, the shipbuilding subsidiary of Devid Brown, fell from £961,579 to £782,133 for the six mooths to April 30 1982 on furnover £7m higher at £15.4m. The interim dividend is being

The interim dividend is being raised from 1p to 2p net and the directors expect to recommend a 6nal of not less than 2p—last year a total of 4p was paid from pre-tax pro6ts of £1.96m. Half-year earnings per 25p share are shown to have fallen from 14.4p to 9.4n.

The directors say the period under review saw further growth in turnover in real terms with all the group's trading companies

all the group's trading companies operating profitably.

Profits at the trading level were marginally tower at £1.22m, against £1.26m. But this was before depreciation of £260.268 (£200.263), interest charges of £413.381 ££432.390), investment income of £267.609 (£335.766), and associate losses of £29.360 (£3.186 profit). t £7.186 profit). Tax took £714,000 (£94,000)

and after crediting revaluation of investments of £848,532 (£90.765). attributable profits came through higher at £1.42m compared with £958,344.

Sir John Rix, the chairman, said in his last annual statement that the compared with a compared with the statement which the second search and search that the second search and received.

that the compeny had receotly received the Government's written abservations on its claim to the European Commission of Human Rights for fair compensation.

its comments on the Government's observations. The written procedure has been completed and it will be for the Commission to decide an how the matter will proceed. Sir John says.

comment Vosper's interim figures reveal

a halving of trading margins to a more "dormal" 8 per cent, the comparable figure having been distorted by profits on the sale of boats on which all the overheads had been sustained in the previous year. With Hovermarine now busy on an £11m order for its surface effect ships. Vosper is not so disproportionately dependent on earnings from its Singapore subsidiary. While shareholders earnings show a drop of 35 per cent, attributable profit has risen 48 per cent to £1.4m. Why? Yarrow's shares, of which Vosper holds 25 per cent, recorded a sharp rise, that's why. Vosper's shares have attracted speculative interest hecause of the company's shares have attracted speculative interest hecause of the company's symptoms of the company's symptoms. DZOY'S compensation claim against th Government. Even if the European Commission eventurily decides in favour of Vosper et al. it should be recorded that Vosper has never made any commitment to redistribute the fruits of its hitigation to sharebolders (half of whom are Sir David Brown).

### Wheeler's slips to £307,436

Wheeler's Restaurants for the ordinary item.

year to April 2 1382 fell back from £383,222 to £307,436, on the opening of a third City turnover up from £5.71m to restaurant and a wife bar.

to pay a final net dividend of item profit attributable to share.
4.33p per 10p share, maintaining holders comes through et E242,990 (£175,665).

Stated earnings per share are 17.4(p (11.71p),

period last year.

During the year, the cumpacy purchased the remaining 40 per cent miloority interests in Wheeler's (Fishmongers) and acquired the business of a wholesale fishmongers in Billingsgate Market. The goodwill purchased or arising from these traosactions of £18,202 bas

Group pre-tax profits at been written off as an extra-7.25m. Group profit after tax is
The company, which owns 16 £263,604 (£183,472). Less a oyster and fish restaurants in minority loterest of £2,412 London and Brighton, proposes (£7,207) and the extraordinary

After a first half which saw a sharp decline in profits from £237,013 to £173,943 and a fall sance Bibec 300 hin the number of customers served, the company maneged to maintain profits for the second six months at just below the level of the corresponding period last year.

During the year, the cumpany maneged to maintain profits for the second share Hissonio 268 hanco Hissonio 268 hanco Hissonio 268 hanco Ind. Cai. 106 hanco Santonder 293 hanco Viccava 318 +5 73 89 -- 2 5.5

# 16 April 1982

# ahead to £189m and pays more

SECOND-HALF profits £5.3m higher et £107.92m meant that Great Universal Stores, mail order and multiple retailing group, finished the year to March 31 1982 with the pre-tax surplus ahead from f179.53m £189.16m.

Turnover rose from £1.76bn to £1.84bn, including VAT of £182.93m, against £178.47m. An increased final dividend of \$.25p raises the total from 12.5p to 13p net. Stated earnings per 25p share are up from 40.64p to 42.63p.

So far this year the group is still moving ahead, with sales and profits slightly up on last year. However, trading remains

Mr Trever Spittle finance director, said yesterday: "We are not underestimating the problems that lie ahead." In the mail order division, UK turnover rose and profits were near the previous year's "excep tionally good " total. Overseas mail order operations improved. Furniture also did well, with sales and profits ahead. Burberrys did well at home and overseas, as did the finance division.

division.

Tax for the year took £83.08m, agenst £78.41m. Minorities ebsorbed £26,000 (£19,000) and preference dividends again accounted for £70,000. Extraordinary credits were substantially lower at £427.000, compared with £1.04m, leaving the available surplus £4.33m higher at £106.41m.

£106.41m.
Provisions for unearned profit. service charges and collection costs amounted to £147.16m £140.07m) at the year-end.
The group's freehold and lease

hold properties in the UK and overseas were professionally valued at March 31 1979. This valuation disclosed a surplus of about £250m over the net book value. Edward Erdman recently informatly advised the board about the valuation of the group's UK properties at March 31 1982. This would result in the surplus at the year-end increasing by about 25 per cent.

As before, the group is unlikely to incorporate the latest increase in property values in the books, although it will be reflected in the CCA figures.

comment Finance and furniture combined to keep GUS moving smoothly abead in the year to March, The UK clothing and footwear multi-ples bed a satbeck, feeling the competitive draught while High competitive draught withe high street occupancy costs continued to rise. Mail order sales increased—as was only to he experted given a full year's use of the John Myers agent list—but profits fell away. Furniture sales and profits, bowever, managed to locrease even in the UK. That comparative success was repeated overseas, where mad order also generated hetter contributions everywhere.
Although GUS re-wound its stock

position-following the previous year's 'destocking exercise-oct balance sheets. At 475p the shares are ticking over on nearly 13 times fully-taxed earnings and the 4 per cent yield (after and the 4 per cent yield (after a faintly parsityonious increase) emphasises that the recessionary-defensive arguments for GUS still bold some sway. Sales and profits are again marginally ahead in the current year, but without any hint of the general volume-recovery which would trip the market into making its traditional switch from GUS into more exclical retailers into more cyclical retailers.

### Asprey rises to £4.87m

A satisfactory outcome for the year ended March 31 1982, was expected by the directors of Asprey & Ce, at the interim stage. Asprey & Ce, at the interim stage, and in the event the full year pre-tax profits improved from f4.13m to f4.87m on higher turnover of £23.95m against £20.09m. At midway, taxable profits were higher at £2.13m (£0.78m). The company operates as a goldsmith, silversmith, jewelier, leather worker, antique dealer

goldsmith, silversmith, jeweller, leather worker, antique dealer and bookbinder. It gained a quotation on the unlisted securities market last October.

The final dividend has been tifted from 20p to 27p which raises the tetal from 35p to 42p. Earnings per 25p share are given as rising from 136.7p to 155.65p. The directors are proposing a 2-for-1 scrip issue.

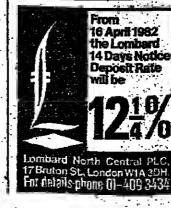
Tax took £1,68m (£1.39m). Extraordinary debits fell from £285,000 to £170,000.

### BENLOX RIGHTS ISSUE RESULT

Some £0.34m of the £0.94m rghts issue made by Benlox Holdings, the building con-tractor, has been left with the sub-underwriters. The issua of 936.000 8 per cent convertible cumulative preference spares of El each at par was laken up as to 600,101, on a one for every five ordinary hasis.

The directors took up their

full entitlement of 95,400 and the rest 'ad heen underwritten by Dawnelen Finance, a company controlled by Mr M. A. G. Buckley, the Benlox chairman



# GUS moves Distillers' second half recovery

Financial Times kilday July 16, 1982

SECOND half pre-tax profits of company must have regard to Distillers Company, the Scotch whisky and gin concern; increased by £9.3m in £112.5m, but depressed to the fact that the U.S. and other leading markets remain depressed to the fact that the U.S. and other leading markets remain. creased by £9.3m in £112.5m, but depressed.

The figure for the full yeer The food group schleved a subended March 31 1982 was just stantial profit recovery in spite behind at £178.5m. This is com-pared with £181m previously of the markets in which it which included a £8.7m surplus operates and the carbon dioxide on realisation of investments.

increase in profit, directors say.

All sections of United Glass continued to suffer from the recessionary conditions.

Redundancy payments and other costs of facility closures were At midway, profits had dropped from £77.8m to £66m and directors said that after allowing for the group's portion of United Glass, its associate, and recognising that the price of British Petroleum shares did not encourage disposals, profits higher than in the previous year with the result that an increased for the year were expected to loss was recorded our share of which was £3.1m, compared with Sales volume of both Scotch £2.8m.

whisky and gin-brand names include Johnnie Waiker. Dewers. An increase of 1p in the final distribution, to 8.75p, has lifted the totel dividend by that amount Vat 69 and Gordon's—declined compared with 1980-81, hut turnto 11.75p (10.75p) net per 50p share and after tax lowar at over and trading profits showed modest increases to £1.08bn t£1.04bn) and £181.6m (£174.7m) respectively—duty included inturnover was £316m (£315.9m). Whiskies bottled in Scotland £49m (£56m), earnings are shown as 35.8p (34.42p) per

Pre-tax figure for the year included investment income of end Tanqueray gin are involced to the U.S. in dollars and directors say the strength of that currency, during the second half, £5.8m (£5.5m) and an exchange profil of £0.3m (£0.1m), but was after finance charges, up from £5.2m to £6.1m, and the associate's losses. The hoard believes that the group's world sales by volume will be close to those of 1981-82.

After minority credits of £0.5m (nil) and an extraordinary debit of £0.3m (£1.7m) the attributable balance came through ahead from £123.3m to £129.7m. halance. Tha directors say, however, there is, as yet, little sign of accelerated activity in world trade generally and that the CCA pre-tax profits are given

as £89.2m (£88.2m)

# Christie-Tyler loss jumps to £2.9m

to April 30 1982, while turnover husiest time for sales.

fell from F74.39m to £71.27m.

The company says of Second-half losses were par-ticularly ecute at £2.18m, compared with a profit of more than film in the corresponding period; There is no divident compared

benefited profits appreciably.

"with a modest improvement in prints."

with 4p paid last year.

Some £2.3m of the losses were incurred at just one of the company's subsidiaries. This traded at the lowest end of the market. which has been most blt by the economic climate. Its closure led o an extraordinary charge of

The group, a holding company with interests in furniture and

ADVERSE CONDITIONS helped weather in the peak January take Christic-Tyler from a pretax profit of £567,000 last year to a loss of £2,92m in the year

The company says conditions remain very difficult in the industry as a whole and are not expected to show any worthwhile improvement in the current trading year. However, action taken has reduced losses sharply, and the

group expects to return to profit in 1982-83. Borrowings are well

within the company's facilities and the interest charge of £585.000 compares with £504,000 for the previous year. .. There was a tax credit of

£374.000 (£774.000). Losses per 10p share are put at 28.4p (earnnphoistery maoufacture, was 10p share are put severely affected by the bad ings 13.9p).

# ATKINS BROTHERS (HOSIERY)

The following are salient points from the Chairman's Statement to Shareholders.

Group profits for the year ending 31st March, 1982 emounted to £516,460 (£448,476). Taxation takes £149,363 (£145,609). The total dividend is 5.0p, a 7½% increase over lest year.

Turnover was slightly down by 2% on the previous year, but profits were up 15%. The hosiery division did not match the profits of the previous year, but our 21-gauge knitwear and men's underwear divisions and dyehouse made increesed contributions to group profits. Our ladies' underweer and cut and sewn knitweer divisions produced disappointing results. We have again made considerable fivestment in new plant end are confident this will maintain our competitive edge within the U.K.

We are conscious of the need to further improve profit performance by diversification into another field of activity. We are elso carrying out extensive and costly reorganisation. These costs, combined with our normally difficult trading conditions in the first six months, will be reflected in disappointing figures for the first half, but we expect to maintain the interim dividend in view of the overall cash situation. The second six months should see e seasonal upturn in turnover end profitability.

"LUCKY CHARM" Makers of

Tights, Stockings, Ladies Underwear and Knitweer. Man's and Bny's Underwear. Knitwear and Sportswear. Ladies' fully fashioned and made-up Knitwear.

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### M. J. H. Nightingale & Co. Limited 27/28 Lovat Lane London EC3R 8EB Telephone 01-621-1212

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		٠	Gman	Viald	P/I	
. Company	Price	Change	div. (p	) %	Actual	te ked
Ass. Bnt. Ind. Ord	134	4.1		<b>5</b> 5		-00
Ass. Brit. Ind. CULS	133	+ 1	10.0	7.5		***
Alesprung Group	. 71	· — .	6.1	6.6	0.1	13.9
Amiltage & Rhodes	43	· —	4.3	10.0	3.0	8.1
Raidon Hill	223x	. —.	1t.4 .	5.1_	9.4	11.8
CCL Tipe Conv. Pref	110		15:7	14.3		_
Cindica Group	265		28.4 .	10.0	10.7	12.0
Deporat Sarvices	85	_	6.0	9.2	3.2	5.7
Frenk Horesti	135		7.8	8.8	-5.7	5.1
Frederick Parker	74	· ;—	6,4	8.6	3.8	7.2
Gearge Bleir	- 53	. · <del>- ·</del>	<del></del>	-	_	-
Ind. Precision Castings.	88	_	7:3	7.4	7.1	10.7
ISIS CORV. Pret.	110		. 15,7	14.3	_	_
Jackson Group	105	· . — .	7.5	7.1 "	3.2	6.7
James Burrough	125	÷ 1	8.6	7.7	9.1	10.2
Robert Jenkins	230	_	31.3	13.6	3.2	8.1
Scruttona A"	· 81 -	+ 1 .	5.7 ·	7.0	10.5	
Tordey & Carliale	155		11.4	7.4		11.8
Twintock Drd.	191	+ 1		_	10.7	
TWINIOCK 1500 ULS	83	+1.	15.0:	18.1	· —	
Uhitoek Heldines	25		20			. 7.5
VV21001 AIRWANDER	- FR	_	8.4	7 =	. 5.6	9.5
W. C. Indian	- 7013		74 8		5.3	12.6
Luces upm sasilable	ON Pri	stel pag	e 4814	B		
	Company  Ass. Brit. Ind. Ord. Ass. Brit. Ind. CULS. Alexange Group  Arnitage & Rhodes. Rardon. Hill  CCL Tipe Conv. Frei. Chidico Group  Deborsh Services  Frank Horesil  Fraderick Parker  George Blair Ind. Precision Castings. Jackson Group  Jackson Group  James Burrough  Robert Jenkins  Scruttone "A"  Turinock Drd.  Twinlock Drd.  Unilock Holdings  Walter Alexander  Walter Alexander  Walter Alexander	Company Price Ass. Snt. Ind. Ord. 124 Ass. Snt. Ind. CULS. 133 Alseptung Group 71 Arnitage & Rhodes. 43 Sardon. Hill 223 CCL Tipe Conv. Pret. 110 Cindico Group 265 Deborsh Services 65 Presk Horesti 135 Fraderick Parker 74 George Blair 135 Ind. Precision Castings 88 Jeis Conv. Pref. 110 Jackson Group 105 James Butrough 725 Robert Jenkins 230 Scruttone A 81 Turday & Carlisle 155 Twinlock Drd. 159 Twinlock Drd. 159 Twinlock Holdings 25 Walter-Alexander 35 Unilock Holdings 25 Walter-Alexander 35	Company Price Change  Ass. Brit. Ind. Ord. 124 + 1  Ass. Brit. Ind. CULS. 133 + 1  Alspring Group 71  Annitage & Rhodes. 223xd —  CCL Tipe Conv. Pref. 110  Chidico Group 265  Deborsh Sarvices 65  Frank Horesti 135  Fraderick Parker 74  George Btel 135  Ind. Precision Castings 88  Isis Conv. Pref. 100  Jackson Group 105  Jackson Group 105  Soruttons A 152  Tanday & Carlisle 155  Twinlock Drd 157  Twinlock Lipe ULS 53 + 1  Unitock Holdings 25  Walter Alexander 360  Walter Alexander 360	Company	Company Price Change Gross Yield (IV.(P) %  Ass. Brit. Ind. Ord. 124 + 1 6.4 5.2  Ass. Brit. Ind. CULS. 133 + 1 10.0 7.5  Alspring Group 71 - 6.1 6.6  Armitage & Rindes. 43 - 4.3 10.0  Bardon Hill 223xd - 11.4 5.1  CCL Tipe Conv. Pref. 110 - 15.7 14.3  Chidica Group 265 - 26.4 10.0  Deborah Services 65 - 6.0 9.2  Frank Horesti 135 - 7.6 8.6  Frank Horesti 135 - 7.6 8.6  George Blair 53 - 6.4 8.6  George Blair 10 - 15.7 14.3  Jackson Group 105 - 7.5 7.1  James Burrough 725 + 1 9.6 7.7  Robert Jenkins 200 - 31.3 13.6  Scruttons A Certiste 155  Tudity & Certiste 155  Tudity & Certiste 155  Twintock Drd 17.4 15.0 18.1  Twintock Drd 17.4 15.0 18.1	Company

THE TRING HALL USM INDEX 128.0 (+0.3) Close of business 15/7/82 Tel: 01-638 1591 BASE DATE 10/11/80 100

LADBROKE INDEX 553-558 (unch.)

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### Haslemere better than expected

TAXABLE PROFITS of Hasle mere Estales rose from £5.88m to £6.08m for the year to March 31, 1982, and topped the directors' forecast of £5.5m made in their interim statement. The second six months' contribution, however, declined by £309,000 to £2.69m compared with the corresponding period,

Stated earnings per 10p share moved ahead to 18.06p (16.35p) on a oet basis but on e nil basis feil from 15.28p to 14.48p. As forecast the total dividend is belog lifted from 6p to 6.9p net

hy an increased final of 5.25p.

Net rental revenue was in line
with expectationa at £13.33m
(£12.71m). After-tax profits advanced from £4.74m to £5.25m, from which dividend payments

absorb £2.01m (£1.74m).

Net asset value per share at year end was £5.42 (£5.84) basic and £5.63 (£5.36) driuted. The group's properties in the investment portfolio were revalued and at March 31, 1982, stood at £232,02m (£215.1m). comment

Having forecast a small setback at £5.5m when it floated its £21.6m rights issue last December, Haslemere has turned in a marginal profits gain.
Uodoubtedly there was an element of conservatism in the original arithmetic but the trading figures have come through a hit hetter than Haslemere expected. Also interest rates eased in the final couple of months. But the figures had little impact on the shares which beld steady at 340p yesterday— a 40 per cent discount to the latest net asset value which has been upgraded by £17m, 7.9 per cent. Strip out new develop-ments and the uoderlying increase is in the area of 5 to 6 per cent. For today's property market that is about as much as can he expected. Though the discount to NAV is double the tevel of a year ago such has been the change of market sentiment towards property values and Haslemere does at least sit at the better end of the sector's spread

to March 31 1982.

little sign of a recovery from the

recession. They say that for the

company to make further sub-stantial progress depends on an

upturn in general economic

The dividend has been held at

5.2p net with a repeated final of

8.52p to 16.05p.
Turnover for the 12 months

was little changed at £29.27m, against £28.16m previously. At

the trading level profits rose

The following compenies have notified dates of board meetings to the Stock Exchange. Such meetings are usually hats for the purpose of considering stricted. Official indications ere not available as to whether the dividends are interims or finals and the sub-

civisions shown below are based mainly on last year's timeleble. TRIBAY loterime — Glasgow Stockholders

Trust.
Finals—Bristo! Evening Post, Fobel International. Envostment Company.
Voltam Sommerville, Syltone, Victoria

FUTURE DATES

COMPARATIVE FIGURES

Profits now exceed £3m.

Shareholders' Funds £28.8m.

interims

Total Revenue

Net Revenue before tax

Dividends: Paid and proposed

Earnings per 25p Share

Dated: July 16, 1982

Shareholders' Funds

from £1.66m to £2.86m.

# Unigate at £38.3m after meat setback LMI profits down £1m

SECOND-HALF taxable profits profits by activity shows: milk of Unigate have fallen from and milk products—UK E31.3m f23.5m last time to f18.2m ff23.6m) and overseas f6.5m leaving the full-year 6 gure to 186.3m); meat and meat products
March 31 1983 only marginally
ahead at £38.3m, against £38m port services £6.2m (£4m);
previously. Turnover for the 12 industrial and food services months rose from £1.35bn to £1,5ho.

Mr John Clement, the chairman, says that 1981-82 profits were adversely affected by a major sethack in the company's traditional meat processing husinesses, and to a lesser extent by the "disastrous" winter weather. dividend is unchanged at 4p net, but reflecting the increased interim, the

total payout is higher at 6.5p (6.2p) per 25p share. Stated earnings per share however, dropped from 14.6p to 13.8p.

At the trading level, profits showed an advance from £40m to £46.7m. UK profits rose by £5m to £35.2m and the U.S. contribution was £2m higher at £5.5m. but the result from other countries slipped from £6.3m to 6m. percentage of trading capital
A divisional split of trading employed now stands at an

(£6.3m); meat and meat products

£7.7m (£2.7m). Associates' contributions improved from £0.4m to £2m, but net interest charges rose sharply to £10.4m (£2.4m). Tax took £7.9m (£6.5m), minorities £0.2m (£0.3m), and there was an extraordinary charge of £14.5m (£13.1m credit)—the costs of rationalisation, closures and sales

of husinesses.
After preference dividends, profits attributable to ordinary holders came through well down at £15.6m, compared with £44.2m. The chairman comments that halance between organic growth and quality earnings. The group plans to increase the profit con-tribution from its non-milk operations, but Mr Clement warns that trading profits as a

largely due to meat losses. the Scot Meat Products' factory at Bletchley.

During the year, £32m was spent on the newly consolidated dairy division, St lvel. to increase the efficiency of existing plant and invest in expansion. Wincanton Group achieved excellent growth, the chairman says, and the expansion of its contract operations continues. The recently acquired Giltspur

Group, comprising exhibition service, engineering and freight related husinesses made its first full year's contribution. Also the purchases during the year of Clipper Seafoods added fish processing to Unigate's meat interests, and Casa Bonita, a speciality food service operation in America, provided a sub-stantially larger U.S. earnings

base. Mr Clement estimates that the had weather has cost some £2m in lost profits in the second balf.

Efforts to improve this posi
"if is our intention to grow by
tion have included the closure of acquisitions where they fit with

Own label operations are seen

Unigate is having a "thorough going review" of meat operations and hopes that results will he down towards break-even this year and profits next year.

See Lex

# Eurotherm expands to £2.25m

in interim pre-tax profits at Eurotherm International from f1.17m to £2.25m for the six months to April 30 1982. Turnover of this maker of electronic equipment moved ahead from f12.51m to £17.07m and a higher dividend is being paid. dividend is being paid.

The results are excellent compared with those previously achieved at this stage, say the directors, but they abouid be viewed with caution in making projections for the full year. The directors point out there are strong indications that the pattern will not follow recent years when more than 60 per cent of profits came in the second balf. In the last full year pre-tax profits amounted £3.27m on sales of £27.6m.

The directors expect second-half profits to he similar to those achieved in the first half. They say there will he a significant increase in overheads in the second half hecause of implementing plans for expansion.

The interim dividend has been

lifted from 1.5p to 2p. Last year a total of 5p was paid. Earnings per 10p share for the first six months were given as rising from 5.78p to 11.31p. In the UK the first half pro-duced good results from all four

particularly significant improve-ments in SSD and TCS, and performancea well up to plan for new veotures.

Overseas, where sales rose from £7.17m to £9.49m, both major U.S. companies made further progress and results in Pre-tax profits were struck after exchange gains of 25,000 (losses £26,000) and lower interest charges of £234,000 (£322,000). Tax totalled £928,000 (£500,000)

(£500,000).

Retained profits came through ahead at £L07m (£499,000).

comment Bearish noises from the company aside, Eurotherm is once again a stock market darling. The shares

have had a good romp in the past 12 months, growing by 45 per cent compared to a sector gain of 34 per cent. The company modestly projects a doubling of these figures for the year. Even so, a f45m result is more than most has been bening for any most had heen hoping for anyway. The company's glamour rating of around 24, however, does not seem to hang on the sales of electronic coolrol equipestablished companies—UK sales tolalled £7.58m (£5.34m) — with meot any more. These husi-nesses continue to do well, hut the excitement about Eurotherm stems from its expansion into the more sophisticated computer application markets such as shop-floor automation and the development of peripherals in the data recording market. These businesses require brains, not money, so provided Eurotherm can hold on to its people, the company continues to hold out

the husiness plana of existing operations or the group as a whole. This will lead to a natural reduction in the contribution from milk businesses in the UK to 50 per cent or less.

hut not without difficulties," he states. Capital spending last year was £75m, which includes £12m leasing. This year's total is expected to be broadly

as important in the meats side, with this year one of recovery and further rationalisation.

Mr Clement concludes that Unigate's balance-sheet remains healthy and the group is broadly oo course with its strategic objectives.

### Marling Inds. pushes ahead to £1.58m

A sharp increase in pre-tax profits for the year to March 31 1882 from £405,000 to £1.58m is reported by Marling Industries. Turnover rose from £19.82m to £22.17m

The company, which manufactures industrial textiles, proposes a cet 6nal dividend of 0.61p per 10p share, giving a total for the year of 1.08p to.94p). Earnings per share are ststed at 10.56p (1.83p).

The directors say they have

The directors say they have negotiated an arrangement with Finance for Industry which will provide up to £3m in long term floance both to repay short term borrowings and make available substantial funds for further expansion and development. There was a tax credit for the ear of £30,000 (charge

year of £30,000 (marge £129,000) and an extraordinary credit of £122,000 (£792,000). interest payments amounted to £678,000 (£648,000) and minori-440p bave a prospective yield of Lies took £14,000 (£1,000).

# W. S. Yeates

expected results have been shown £442,000 (£395,000). There were extraordinary credits last time of £135,000. Attributable profits this time emerged higher at £1.48m (£988,000). for the second half at Jones, Stroud, maker of fahrics, accessories and materials, with full-year pre-tax profits rising from £1.31m to £2.6m for the period

Jones, Stroud up £1.3m

The directors say that a sur-plus from the revaluation of At the interim stage the directors expected the second half to match the first, when pretax profits rose from £685,000 to freehold property of £1.31m, and from unrealised exchange movements during the year of £207,000 (£42,000), have been added to reserves.
On a current cost basis pre-However, at the year end the

tax profits were reduced to £1.54m (£654,000) and earnings (1,29p).

### Yeoman Inv.

Net earnings of Yeoman Invest-ment Trust rose to £401.654 for 3.2p. Earnings per 25p sbare are given as rising sharply from against £376,711 last time, with gross reveoue up at £702.080 from £650,436. The interim dividend is maintained at 2.5p net per 25p ordinary share.

Gross revenue was struck before administrative expenses Pre-tax profits were struck of £58.454 (£58.9051 and interest payable of £520,000 (£744,000), but intook £206,928 (£182,024).

Sth. African Land and Expire. July Vaal Reols Expire. and Mining July Western Deap Levels ...... July Finals—

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3,208,442

2.25p

5.019p

28,833,662

4.873.276

2.508,587

2.00p

4.6130

27.925,553

FANUC LTD

**BOARD MEETINGS** 

EVANS OF LEEDS PLC

PROPERTY INVESTMENT GROUP

Group resolts for the year to 31st March, 1982

Dividend increased from 2.00p to 2.25p.

To the Holders of

FUJITSU FANUC LTD (now FANUC LTD)

41/2 % Convertible Bonds Due 1996

Pursuant to Condition 5(C) (xii) of the Terms and Conditions of

the Bonds, notice is hereby given as follows:

1. A public subscription to 2,500,000 Shares of our Company will be made on July 31, 1952 in Japan at a price of Yen4,100 for

As a result of such subscription, the Conversion Price at which the above-mentioned Bonds may be converted into Shares of our Company will be adjusted effective as of July 31, 1982, Japan time, from Yen 5,641.7 per Share to Yen 5,640 per Share pur-

suant to Condition 5(C) of 41112 Convertible Bowls Due 1996.

# jumps 180%

PRE-TAX profits rose by 180 per cent at W. S. Yeates in the six months to April 30 1982, from £255,000 to £715,000, on turnover up by 40 per ceot from £10.55m to £14.79m.

The group, mainly engaged in coach and car distribution, says a strong performance by the passenger service vehicle divi-sion made the main impact on slon made the main impact sales. However, the car sales, repair, parts and manufacturing improved results.

A net Interim dividend of 4.8p per share is declared, up from 4.2p In the corresponding period. Mr Charles Yeates, the chairman, says the increase in the group's liquidity at midway gives it a financial strength which will enhance competitiveness, and a good result for the full year is apticipated. Tax took £21,000 (£15,000). Retained profits rose from £205,000 to £654,000.

The company's shares are traded on the market set up hy M. J. H. Nightingale & Company.

### Symonds profit recovers to £254,000

A recovery in pre-tax profits from £24,009 to £254,016 in the year to March 31, 1982, is reported by Symonds Englacer-ing, helped by a £306,350 turnround in the second half to profits of £144,494.

Atlantic Assots Trust ...... July 22
Hamoson Industrias ..... July 22
Independent Investment ... July 22 Turnover of this precision eogineer, sheet metal worker and jig and tool manufacturer rose by £200.000 to £2.8m in the year. The dividend increased from 0.3p to 0.785p with a final of 0.5625p (0.0775p). Stated earnings per 5p share are up from 1.219p; of the group's trade, he says it .411p, after a tax charge of £110.281, against a credit of

### TR Trustees moves ahead to £2.87m

Net revenue of investment trust TR Trustees Corporation moved marginally ahead from £2.72m to £2.87m in the year to May 31 1982, while the stated earnings per 25p sbare rose from 3.02p to 3.19p.

The year's dividend is being raised to 3p net (2.95p) with a final of 1.9p (1.85p). Net asset value per share is given as 99.1p

Gross revenue advanced from 64.66m to £5.23m. At the half year stage net revenue had improved from £1.46m to £1.48m. The company was previously known as Trustees Corporation.

### Oil and Assoc. slightly ahead to £609.640

Associated Investment Trust in of 3p. Earnings per share are the year to March 31 1982 lifted given as 6.43p (0.48p losses). slightly £609,640. from £592,550 to

A final net dividend of 2.5p per 25p share is proposed raising the total payout from last year's 3.5p to 3.85p. Earnings per share are stated at 3.89p (3.92p) and net asset value per share is put at 95p (169p) at the

£192,829 (£180,788) and foreign tax £27,655 (£19,790).

### George Dew at £910,000 PRE-TAX profits of George Dew prudent policy with regard to

emerged at £910,000 for the half year to May 3 1982 from turnover of £13.84m, Comparisons of £2.17m and £15.68m respectively are given but it is pointed out that these relate to the old George Dew and Co.

good growth potential to its

shareholders. Assumiog a similar

rise at the final, the shares at

Tax took £456,000 £1.04m) and there was an extraordioary debit larger value than have been of £30,000 (nil) for listing obtained during the past six expenses. An interim dividend months."

The chalrman comments that

The chairman says that although the results show a reduction as compared with the figures for the old group last year, the nature of the group's husiness is such that recognition of profits is significantly affected hy the timing of the completion of contracts. He adds that although not

directly comparable, the figures do illustrate the difficulty the company is experimination not to depart from its for the half year was 5.7p.

The group, he says, "should produce satisfactory results for the full year as a consequence of completions of major contracts but, looking forward, the urgent task is to convert tender inquiries into useful contracts of

"Interesting inquiries" have been received from abroad but the long-delayed upturo in the required to keep the whole resources of the group employed. He coocludes that in the absence of bank borrowings, the company is hetter placed than many to weather the foreseeable

Earolugs per share are given as 11.4p but this figure, it is encing in ohtataing new work pointed out, was on an anualised at sensible prices and its deter-basis. The proportionate figure

## **Associated Heat on target**

PROFITS IN line with forecast attributable to shareholders—were returned by Associated Heat Services for the year ended March 27 1982. At the pre-tax were 1.7p above forecast at an level, they emerged at £2.71m which was an increase of some 8.5 per cent on the £2.5m made in 1980-81 and an improvement of £67,000 on the estimate made in the offer for sale documentthe company went public in May

this year. Sir Derek Ezra, the chairman, considers the results satisfactory in the context of the severe recession which has affected British industry. However, in view of the continuing economic uncertainties and the seasonality is too early to make any forecast for the current year.

Turnover for 1961-S2 rose to Turnover for 1961-52 rose to 536.22m (531.13m)—the group's business is that of offering a complete beat supply and managenus service, including the provision of air conditioning. It also operates contracts relative to the service of the service o ing to coal, gas and oil-fired plants,

Tax took £994.000 (£1m) leaving profits of £1.71m (£1.5m)

were 1.7p above forecast at an adjusted 24.1p. and compare with 21.3p the previous year. They were adjusted to reflect the effects of flotation.

Dividends aggregating £300.000

at the rate of £1 per share were paid to shareholders before the offer for sale: no further dividends are proposed for 1981-82. The chairman says he helleves major users of energy, particu-larly in the industrial field will need to look increasingly for outneed to look increasingly for outside professional expertise to maximise efficiency as fuel costs continue to rise, adding that the group is well placed to provide that expertise.

The group went public via a tender offer of 3.2m shares. The

tender was three and a balf times oversubscribed. Its two founding shareholders, the National Coal Board and Compagnie Generale de Chauffe, the French heat management service company, each retained a 30 per cent stake.

On a CCA basis taxable profits totalled £2.02m (£2.01m).

### Recovery at G. M. Firth ACTION AT steel stockist and

property developer G. M. Firth (Holdings) to rationalise the stockholding business, reduce overheads and replace nonincome hearing properties, brought about a turnround from taxable losses of £52,996 to profits of £186,251, in the year to March 31 1982. Turnover advanced by 46 per cent. from £2,37m to £3.47 m.

At the half year stage the roup had already produced pte-tax profits of £27,000 compared with £57,000 previousty. The final dividead is being maintained at 1.5p net per 10p Pre-tax revenue of Oll and share making a same again total Mr Ian Wasserman chairman, says the group is now firmly based for expansion and the directors look to the current year with confidence.

Turnover of the steel stockholding subsidiary Clarke's of Stillington increased by 27 per cen: and profits were up from year end. . £15.048 to £133.544. The UK tax for the year took rationalisation of this operation is completed, he says, and the company can concentrate once

again on increasing its customer base and expanding turnover. The industrial property marhet remained depressed, especi-ally in the North and Midlands and during the year the group disposed of a number of pro-perty assets which were nonincome-bearing. Since the year-end further trading properties have been disposed of, realising around £325,000.

Subsequent to the year-end the group has acquired a 12.2

per cent shareholding Howard Teneos Services, who major assets comprise freehold land and buildings. As recently announced, there have been bid talks between Howard Tenens Services and Crest International Securities, and the directors are maintaining a close review of this situation. Tex took £14,589 £240,147

credit) and in the previous year there was deferred tax written back of £448,800. After extraordinary debits of £21,999 (£24,382), attributable profits amounted to £149,663 (£411,569). Dividends absorb £80,070 (same), leaving retained profits of £69,593 (£331,499).

# but dividend maintained

TAXABLE profits of London and Midland Industrials, engineering and Industrial Services and consumer products group, fell from £3.01m to £2.03m, for the year ended March 31 1982, with most of the downturn coming in the first six months some £780,000

The results were after all redundancy costs incurred in the ongoing husiness. Although any signs of world economic recovery have been slight, directors say there are indications that the situation has

indications that the situation has at least stabilised.

Mr C. M. Beddow, chairman, states that the group remains financially in a strong position "with important cash balances, only nominal gearing and substantial long term resources."

The dividend has been maintained at 7.75p net per 25p share with a same-again final distribution of 4.85p.

Turnover for the 12 months was behind at £39.84m, compared with £43.32m, and trading profits totalled £2.75m (£3.29m) which were split as to: engineering and

writen 22.79m (£3.29m) which were split as to: engineering and industrial £0.9m (£1.63m) and consumer products £1.85m (£1.66m). The chairman explains that,

recently, some important divest-ments and strategic changes have been made which will have been made, which will reflect positively in future group operations and results."

The companies concerned are the benefits to the pre-tax line Cadulac Chemicals, Woodmet, appear more clusive than ever. Doran Engineering, and London The reality is that the deal sub-Coated Sheet Company, which have been either sold or closed

Extraordinary debits to cover Extraordinary debits to cover these items amounted to 5953,000 (276,000) which, after a tax charge of £593,000 (£792,000) leaves the ettributable halance well down at £480,000, against a previous £2.14m.

After dividends there was an £826,000 loss (£848,000 profit) retained. Earnings per share are given as 8.6p (11.5p). Mr Beddow says the result of the rationalisation will be elimination of ongoing losses in those companies, the further strengthening of group cash holdings by over £1m, and the release of management resources

to concenirate on growth areas and pursue opportunities for and pursue opportunities for expansion.

He adds that with the rationalisation achieved "we expect to see increased activity in areas of our existing businesses, where we shall continue to invest."

On a current cost basis presers forms is reduced to \$324,000.

record performance by Compton this time pushed trading prefit up 10.19m to £1.85m. This partially offset the severe setback in engineering, down from £1.63m to 50.9m, despite record figures from Systematic Drill Head. The difficulties last year certainly forced the group to grow np quickly and realise that its future did not lay with a multitude of small low potential companies. Five companies were disposed of —three hy management huyouts—and related losses of £190,000 were taken as an extraordinary item. But the loss making diseaster Ariston has been retained and may struggle to break even next year. Justified

stantially strengtheoed the consumer products division. Here

neir

o do are

rial ady buld gith gith bot ses-tof te

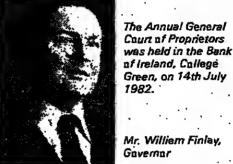
caution in the search for acquisi-tions—currently in the U.S.— leaves the balance sheet showing a healthy growing net cash posi-tion. Meanwhile payment of a maintained dividend, which is uncovered after the extraordinary where we shall continue to invest."

On a current cost basis pretax figure is reduced to £824,000 (£2\_llm).

Comment

It is two years since LMPs merger with Winn Industries and yesterday's expected poor figures make uncovered after the extraordinary debits, reflects management's confidence that the gradent that the first two months. A view supported by yesterday's 9p leap in the share price to 88p, compared with a net asset value of 94p, for a fully taxed p/e of 14 and yielding 13.2 per cent.

# Bank of Ireland



of Ireland, College Green, on 14th July

Mr. Williem Finlay,

Results

previous year.

 Accounts presented on Current Cost Accounting basis, to ensure that edequate provision is made for maintaining the Group's operating capacity.

 To facilitate companson, on the Historical Cost basis profits before taxation were IRE62.6 million (IRE52.7 million in previous year), and profits after tax and the levies imposed in the July 1981 end March 1982 hudgets were IR£36.3 million IIR£38.6 million in the previous year).

Dividend per IRE1 unit of Capitel Stock: 22p (tax credit 7.3613p), compared with 22p (tax credit 6.8660p) in year ended 31st Total assets reeched IRE5,073 million, es.

compared with IRE4,333 million at end of

Banks' lending rates is overdue. Overdraft and term loan rates must be adjusted quickly as interbank rates rise or fall in response to market lorces. • The regulatory powers of the Central Bank do not apply uniformly to all banks and financial institutions. The present

The Group's performance was creditable

There was a material recovery in the

operating profit of the Bank and its

hanks were besed on two serious

taxation, and that their profits are

subsidianes.

excessive.

in a very difficult economic environment.

The two erbitrary levies imposed on the

discharge their due liebility to corporate

 There must be no misunderstanding about the causes of increases in interest rates. They'ere not determined by the banks, but

rather reliect the damestic environment.

arrangements for adjusting the Associated

and the inevitable relationships with

interest rates in other countries.

A re-assessment of the present

miscanceptions: that the banks do not fully

instruments of monetary policy are not "... canducive to a more competitive system. The Bank is introducing improvements in its operations with all possible expedition. These will provide improved service for customers and greater job satisfaction for

SUMMARY OF GROUP RESULTS - Year ended 31 st March

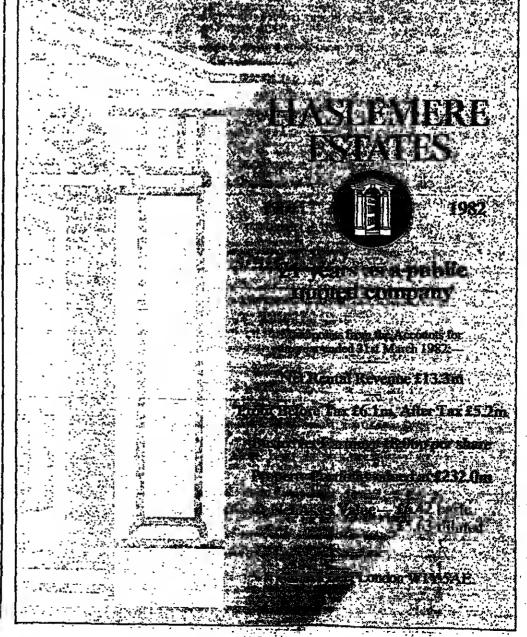
IREm 305.8 259.4 Cepital and Reserves Deposit, Current and other Accounts 4,631.0 3.965.6 Advances 2,569.2 · Current Cost Profit Before Texation 22.8 . 12.8 Current Cost Profit Attributable to 3.0 Capitel Stackholders 5.4

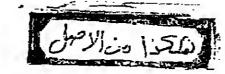
The State man's of the Governor and the Are sat September Accounts are available better the Sevenor. Bank of notional Head Office. Lover Baggot Street, Bobban 2.



d Rata

# Bank & Ireland





Out of court

in Christopher

Christopher Moran and Co., the

insurance broker and part of the

Christopher Moran Group, bas reached an out of court agree-ment with Willis Faber and

Dumas (Agencies) and other

parties relating to a long running

In the settlement Christopher Moran and Co is believed to have

received over £150,000. In the

J. D. Boyagis (Underwriting Agencies). Barder and Marsh, Lloyd's underwriting syndicates 158, 451, 931, 635, and 648. The

second to seventh defendants

have made payment to Chris-topher Moran and Co.

The payments represent costs, interests and brokerage.

Trust Secs.

edges ahead

to £442,000

Taxable profits of Trust Securities Holdings edged ahead from \$130,000 to \$142,000 for the six mooths to May 31 1982 inspite of a \$1.44m drop in turnover to \$23.1m. The net interim divideod is maintained at \$0.71875p per \$10p share—a total equal to \$1.96875p was paid for \$1980/31 after adjusting for a sub-division of the shares from \$40p\$.

of the sbares from 40p.
Stated earnings per share were 6.3p (6.2p) or 1.6p (1.5p) calculated before goodwill written off.
Tax took £20.000 (same) lesving the net balance at £422,000 (£410.000)

(£410.000). The company has completed the letting of No. 1 Francis Grove, Wimbledon, to a subsidiary of a major international oil company and has subsequently let its major development of 39.000 sq ft at Spring Gardens. Maochester, to Toolal at a record rent for the area. Other developments are pro-

Other developments are pro-ceeding well and a report on

the outcome of the company's negotiations with the GLC regarding Stockley Park is due

An advance in pre-tax profits from £2.76m to £2.85m is reported by Burtoowood Brewery

Company (Forshaws) for the year coded March 31 1982. Turn-over also improved, rising from £16.43m to £18.3m.

Stated earologs per 25p share rose by 3.1p to 39.8p and the dividend total is being increased to 5.757p oet (5.192p) by a finsl of 3.797p. Tax took £1.16m (£1.17m).

Tribune Inv.

Trust makes

10.8m pre-tax

FOR the half year to June 30 1982, gross revenue of Tribune lovestment Trust amounted to

Burtonwood

rises and

pays more

(£410.000).

Moran case

By John Moore,

insurance litigation.

settlement

BIDS AND DEALS

# Berisfords inserts equity as Commission ponders

BY RAY MAUGHAN

S & W Berisford has inserted clear understanding that British cash coosideration payable for part equity alternative into its Sugar's evidence to the Commisthe British Sugar shares for £282m cash hid for sugar heet procesor, British Sngar Corpora-The terms of this new share element are very much in line with Berisford's closing market price of 137p, up ip yesterday, for the bid now contains the right in elect for one new Berisford share fo revery 135p of the 470p cash terms.

The share alternative is incorpurated into Berisford's formal offer document, but as the bid was despatched ast night was despatched hast night, neither side was entirely sure of the exact position of the European Commission in relation to Article 86 of the Treaty of Rome, which deals with any abuse of a dominant position in a community market.

The competition directorate bas informed Berisford that it still reserves its position on the offer despite the bidder's earlier be made in respect of all the

Sugar's evidence to the Commis-sion would not stand in the way

It is understood that the directorate is preparing to make an interim judgment today on new evidence presented by the heet group and a third party, although it is by no means certain whether this would add up to anything more than a stay of

The acquistion of a 10.5 per cent holding in British Sugar from Ranks Hovis McDougali is conditional on the approval of Berisford shareholders before August 9, and no new reference to the Monopolics Commission hefore completion of the pur-Accurdingly, Berisford will be

seeking its shareholders' consect at an extraordinary meeting on July 30. If the share elections were to

which the offer is accepted, Berisford said, each accepting British Sugar shareholner would receive two oew Berisford soares and 200p in cash for each British Berisford made it clear that it

had not changed its view that British Sugar's 14.7 per cent stake in RHM has "no commercial justification" and joiends to place the holding "when market conditions are appropriate. Despite British Sugar's vehe-ment objection to the bid and its

Panel to its cause, an attempt which it admitted tast night had run joto " B dead end," Berisford has "requested the board of British Sugar to coovere an extraordinary meeting of British Sugar to renrganise its sbare capital in order in reduce the cost in Berisford of implementing

# Pioneer Concrete offers 155p cash for Mixconcrete shares

ultimate parent company of which is Pioneer Coocrete Services (PCS) of Australia, is making a 155p cash bid for each Mixconcrete (Holdings) ordinary share Pioneer does not already Pioneer currectly bolds 105,000 Mixcoocrete shares.

The offer which values Mix-concrete's share capital at £14.4m, represents a premium of 36 per cent over the middle market price on Wednesday— Mixconcrete sbares closed yester-day at 17Sp, a rise of 63p on the

day at the directors of Mixconcrete strongly advise shareholders to take no action to relation to their foldings, and will be writing to shortly.

Pre-tax profits of this Nor-thampton-based ready mixed concrete, saod and gravel groun dropped from £1.6m to £50,388

maintained at 4.05p net per sbare. Turnover was down from £4S.47m to £42.89m.

In their annual report last March the directors said that there were signs that an air of confidence was returning to the construction industry and with the trend towards lower interest rates, they were cautiously optimistic that activity in the industry would be stimulated.

PCS is based in Sydoey, Australia, and is engaged in the production and marketing of expansion building products, principally in Australia, the UK, U.S., Italy, Spain, Israel and Hong Kong.

They are minimal

Since commencing operations in the UK in 1962, Pioneer, bolding company for the UK activinow has some 140 operating Hambros Bank, and formal offer of aggregates and in made. for the year ended November 30 of aggregates and in ready soon as possible.

mixed concrete production, the directors explain.

The PCS group's pre-tax profit -but after minority interests-was ASS9.2m for the year ended June 30 1981 and amounted to AS46.1m (33.4m) for the six months to December 31 1981.

The directors point out that Mixcoocrete operates in geo-graphical areas of the UK where Pioneer does not have signifi cant representation, and the acquisition of the company would be a logical step to the expansion of Pioneer's UK

They add that because of the minimal overlap of operations hetween the two companies, only limited rationalisation is

# Mercantile House in £4.8m sale

the UK money-broking group, operation. yesterday anonunced the sale of its Far East interests to the local management team for £4.8m

Completed in August.

This deal follows the sale, in May, by Mercantile House of Charles Fulton (Hoog Kong), Charles Fulton (Singapore) and its 40 per ceot holding in Charles Fulton (Malaysia) to a holding company owned principally by the present management. Local interests completed in August.

This deal follows the sale, in May, by Mercantile House of the Sele, in May, by Mercantile House chalrman. It is possible there will be more but mothed is planned at the moment. The For Eastern interests.

The For Eastern interests which eschow the sale, in mothed is planned at the moment. The For Eastern interests which eschow the sale, in possible there will be more but mothed is planned at the moment. The For Eastern interests. The For Eastern interests. The For Eastern interests which eschow the sale, in possible there will be more but mothed is planned at the moment. The For Eastern interests. The For Eastern interests which eschow the sale, in possible there will be more but mothed is planned at the moment. The For Eastern interests which eschow the sale, in possible there will be more but mothed in the sterling money hroking arm of the moment. The For Eastern interests which eschow the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mothed in the sale, in possible there will be more but mo

Mercantile House Holdings, own the rest of the Malaysian Mercantile House in March for The assets involved had a net

book value of about \$800.000 on March 31. The deal is due to be completed in August.

the entire Charles Fulton group.
"We are entirely sympathetic to 1 30azemeol buyouts, said Mr John Barkshire, the Mercan-tile House chalrman. "It is

### CU sells Danish subsidiary for £1.3m

Commercial Union Assurance Company is selling its Danish subsidiary Forsikrings-Akticselskahet Vidar to the Danish josurance group Forsikringsaktieselskahet Hainia for DKr 19m sigoed a technical assistance

Shareholders' fuods of Vidar mercial and industrial risks. In 1981 were DKr 16m (fil.im) will be appointed CUs and gross gremiums income was DKr 60m (fil.im). Danish oranch insurance busi-DK- 60m (\$4.1m).

The deal represents a further ness, move by CU in the rationalisation of its overseas operations. It was decided that Vidar was too smail to be able to compete successfully for insurance ousness in the future. As in other countries, CU has tied up in Denmark with a large group. Hafnia is the second largest iosurance group to Denmark.

with occolife net written pre-miums of \$35m and life premiums of £63m.

CU has had a close relation-ship with Hafnia for many years and to streogthen these ties. CU will acquire up to 2 per cent of Harria and will issue to Harria new CU shares of equivalent market value. This will be satis-fied by the issue of about 600,000 CU inares at a current market value of about 2800,000.

Mr Leslie Hammick, general trade under the name Freeman manager of CU's overseas division, said Hafnia Bod CU intended to pursue a policy of agreement relating to large com-

### CONSULT ACQUIRES FINANCE COMPANY

Consul! International (Mr R. A. Shuck I through its wholly-owoed subsidiary North Wales Trust has acquired 98 per cent of the Portsmouth Finance Corporation.

### WM. PICKLES SUBSIDIARY SOLD

Mr Henry Butt and Mr Paul Haiosworth of Price Wateraouse. the receivers of William Pickles. have announced that the husiness assets of Freemaa and Son, a subsidiary, bave been sold to R. Mould of Nortingbam. The business will continue to

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from Beken Engineering various fixed assets comprising plant and equipment, together with the stock and work in progress and design rights and liabilities, for 572.000 (book value). This is made up of ESO.000 cash and an estimated \$42,000 of reorganisetion experses to be intered in the next few months.

### PANTHER SECS.

The Stock Exchange has cancelled the listing of both the preference and the ordinary shares ta Papther Securities ou has agreed to allow matched barnains in the shares to take place under the provisions of SE Rule 163 /0/2.

### CHRISTY BROS.

Christy Bros. has purchased

tract, turnover of Beken for the

Excluding one special conyear to May 31 1980 was about star warmen set bee 000,0522 a nominal profit.

£908,000 and pre-tax revenue came to £836,000. For the same period last year, the respective Saures were £771.000 and £705.000. The directors point out that figures are not comparable because of the locideoce of divi-

deni payments.

Earnings for ordinary holders were £492.000 (£422.000 before exchange credit of £24.000) and earnings per 25p share were shown at 1.92p (1.65p). Tae

### Romney Trust midway decline

For the six months to June 30 1950 after tax profits at Romney Trust declined from £657,000 to 5593,000. The loterim dividend has been held at 1.3p net. First-half gross revenue for the current year came to £1.25m (51.57m). After tax of 5379,000 (5435,000) earnings per 25p share

were given as slipping from 2.35; to 202p. Not asset value was stated as 165.1p (179p) or, assuming full conversion of ican stock, 164.5p interim dividend is increased from 0 % 10 25p—last year's

total was 5p on \$1.6m pre-tax

### DIVIDENDS ANNOUNCED

terenue.

DIVIDENDS	ANNOU	JNCE	)	
_	Date			
Chines.	· of :	50053:03		last
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### **NEW LIFE BUSINESS**

# Sun Life decline in group pensions

THE DECLINE in group pension operations has severely restricted the new business

Annual premiums on group, busines were cut from £6.3m to £3.9m, though single premiums rose from £1.4m to £1.6m. Mr Richard Zamhoni, Suo Life's managing director, said this decline was not unexpected in the lower levels of pay original legal action Christopher Moran had been suing Willis Faber and Dumas (Agencies). view of the lower levels of pay settlements and reduction in numbers of employees as members of peosioo schemes.

The company did well on individual life and pensions. Annual premiums on ordinary traditional life rose 16 per cent to £19m, while single premiums on this business jumped 13 per cent to £7.8m, thanks to a con-tinued good business in imme-

schemes improved over the period with annual premiums restricted the new business growth of Sun Life Group during the first half of this year. New annual premiums dropped nearly 3 per cent to £17.1m, while single premiums fell 2 per cent to £34m.

Annual premiums on group. dropping nearly 30 per cent to The company's unit linked operations showed a two-thirds

jump in annual premium business from £2m to £3.3m.
Ordinary life Premiums rose 43
per cent to £1.4m, and executive
pension more than doubled to
£1.4m. But self-employed £1.4m. But self-employed pension premiums remained static at £487.000.

static at £487,000.

Linked single premiums remained unchanged at £12.8m, with s 20 per cent drop in life bond business to £7.5m being made up by a 44 per cent rise in seif-employed premium to £3.8m and a donbling in executive pension business to £1.4m.

# Satisfactory growth for Equity & Law

Satisfactory growth in new life and pensions business during the first half of 1982 is reported by Equity and Law Life Assur-ance Society. New annual premiums rose by one-fifth from f92m to f11m and single premiusm by a similar proportion from £13.7m to £16.3m. New sums assured improved by 16 per cent from £576m to £670m.

The society's individual business chemes in the period against the period of the period of the society wrote 57 new schemes in the period, against the period of the period of the society wrote 57 new schemes in the period, against the period of the period of the society wrote 57 new schemes in the period of the period of the society wrote 57 new schemes in the period of the period of the society wrote 57 new schemes in the period of the society wrot ness was good with new annual premiums jumping by one quarter to £10.2m, against £3.1m, and single premiums by 30 per

cent to £14.6m (£11.2m).
Individual pensions business was particularly buoyant with self-employed pensions up 60 per ceot and executive pensions nearly 40 per cent.

The company did much better oo its traditional business, compared with its unit-linked opera-tions. The linked annual

premlums improved around S per cent to £1.5m and single premiums by 10 per cent to £1.5m

Annual premiums on insured pensions business rose from £500,000 to £800,000, much of this

13 last year. Other group pen-sions business was dull, bowever with the managed fund being particularly affected — annual premiums were down from £600,000 to virtually nil and single premiums were cut by one third from £1.8m to £1.2m. Overseas, the society recorded s 22 per cent increase in indi-vidual bosizess in Holland des-pite continuing stiff competition.

and doubled its business in Germany.

Increase (+) ur

### BANK RETURN

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	2,507,911,878	+ 102,705,505
Assets Government Securities,	824,077,538 1,198,057,349 858,809,977 25,586,922 389,385	+ 97,987,833 - 30,482,900 + 25,676,584 + 11,981,085 + 4,502
	2,607,911,873	+ 102,705,595

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### MINING NEWS

# Guinea diamond venture due to start in 1984

BY KENNETH MARSTON, MINING EDITOR

reported a new diamond mining venture planned for Guinea which aimed to sell its output ontside the auspices of the big De Beers' Central Selling Organisation which handles the marketing of some 80 per cent of world diamond production.

Although little has been beard of the venture in recent times a reminder that it is still times a reminder that it is sufficiently be a reminder that it is sufficiently be a sufficient of the sufficient of the Sheffield-based. Thus. W. Ward (Industrial Supplies), has woo a £2m contract for the supply of electrical power to the West African diamond project.

The management company for The management company for the diamond venture is Aredor Services in which the Republic of Guinea has 50 per cent, Australia's Bridge Oil 45 per cent, Simonius Vischer of Basla 2½ per cent and Jack Lunzer's Industrial Diamond Company of London with the remaining 23 per cent. The operating company is Aredor Guines.

Two years ago the capital cost of the venture was put at \$70m and this has now escalated to \$80m of which some \$20m bas so fer been spent and further sums have been committed.

Because of adverse weather conditions more construction has bean delayed but subject to satisfactory financing arrangements being concluded the operation could come on stream in control 1984.

an output of some 250,000 carats in the first year of production

TWO YEARS ago this column from the tree ent of 400,000 reported a new diamond mining cubic metres of diamondiferous By 1986 the company will be able to work some im cubic metres and providing that the prospecting results bear out the

prospecting results bear out the present promise this could, of course, boost the caratage.

This would still be very small by De Beers' stoodards, but it should be remembered that West African diamond deposits, such as those io Sierra Leone, have a high gem quality content.

Aredor's calculations have been based on the cooservative price valuation of \$185 per carat, but this does not take into account stones of over 10 milli-

carat, but this does not take into account stones of over 10 millimetres in size and they can range up to around 60 mm.

The non-Government shareholders of Aredor will handle the marketing of 70 per cent of the gem output and S0 per cent of that of the industrial quality diamonds.

diamonds.

diamonds.
This is where Mr Lunzer comes in with his Aredor Sales which is managed by Industrial Diamond Company; the latter already purchases a portion of the diamond output of Sierra Leans and Jaira. Leons and Zaire.
It is left to the Guinea Govern-

ment to decide on how the balance of the diamonds is to be sold. What remains to be seen, however, is how successful the nowever, is now successful the overall marksting arrangement will be in competition with the activities of De Beers and against the background of demand for diamonds generally which, at present, is particularly weak as far as the better quality gems are concerned.

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**EUROPEAN OPTIONS EXCHANGE** 

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TOTAL VOLUME IN CONTRACTS 3856 A=Asked B=Bid

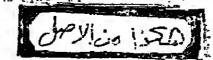
### BASE LENDING RATES

.C=Call

P=Put

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	Banco de Bilbao 12 %	C. Hoare & Co
	BCCI 12 %	Hongkong & Shanghai 12 oz
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	Bank of Ireland 12 %	Knowsley & Co. Ltd 1219
	Bank Leumi (UK) plc 12 %	Tierres Bearly
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	Cayzer Ltd 121%	Tribad Parks and 12 %
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	Charterhouse Japhet 121%	Volkskas Inti. Ltd. 12 %
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	Duncan Lawrie 12 %	250,000 93, 250,000 and over
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# **UK** fowlpest rules declared illegal

achieved."

BY LARRY KLINGER IN BRUSSELS

THE EUROPEAN COURT ruled still awaiting receipt of the full Newcastle disease, a viral infecyesterday that Britain's restrictions on Continental poullry imports were illegal. The the UK regulations were "turkey war" health regula- "entirely justifiable on health tions have for nearly a year amunds, hearing in mind our effectively hanned the bulk of island status and our reputation

tal producers.

Britsin will now he under considerable pressure to amend lake to maintain the benefits its rules before the Christmas poultry season, which had become an increasingty lucrative business for Continental war" broke out last summer farmers, especially for the after a spectacular growth in French, before the UK intro- French poultry sales to Britain. ducad its emergency measures a trade estimated by the Comlate last summer.

The Commission is seeking value immediate talks with Britain units of account in 1979 to 4.8m and the two main exporting in 1980 (about \$15,700 and countries. France and the Netherlands, in an attempt to rates 1. reach a solution to the problem by September, the crucial month for the placing of export orders for the Christmas season.

UK Government officials in

London, while expressing disap-pointment that their case had pulsory slaughter policy to deal London, while expressing disapbeen rejected, said they were

that clarifies and broadens pro-

rtection of commodities and

securites markets in the event

of a hankruptcy of an investor.

The measure allows liquida-

tion of a commodities contract

or forward contract. The liqui-

dation of a securities contract

could not be prevented unless

an order is granted under existing securities laws.

liquidation of such open

accounts freezes the status quo

and minimises the potentially massive losses and chain reac-

tions that could occur if the

market were to move sharply in the wrong direction," the House

The Bill also ensures that the

bankrupicy trustee's powers are not used to permit march or

settlement payments to he set

aside except in cases of fraud.

report on the Bill said.

"The prompt closing out or

Britain's National Farmers' Union said that it helieved that fowl pest. "entirely justifiable on health poultry imports from Continen-tal producers. for healthy stock which is second to none, and we shall he considering what steps to

which the current policy has

The Anglo-French "turkey war" hroke out last summer mission to have increased in from 28,000 European £2.7m respectively al current

Following widespread profests by British farm workers claim-ing that their jobs were being endangered by unfairly subsi-dised turkey exports. Britain in with any future outbreaks of

tion more generally known as

In yeslerday's judgement, the Court did nnt deny Britain's right to take measures to propoulty agains: its Newcastle disease, hut ruled that new measures were "cx-cessive" on purely health grounds, suggesting that "the real aim . . . was in block for commercial and economic reasons, imports of poultry products from other memoer stales. in particular from France."

The Court rejected British arguments that its new regulations were the "only poscibility" open to it un health grounds. saying that there were obviously "less stringent measures for attaining the same result." While the Commission now

plans in act speedily to its con-tacts with the UK and the main exporters, it is still far from certain how quickly new arrangements can be agreed and implemented. "A lot must depend on Britain's good will," one Commission official said 3

### U.S. bankruptcy **Concern at Dairy** bill passed **Crest losses** ·WASHINGTON -- Congress gave final approval to a Bill

BY A CORRESPONDENT

THE ANNUAL report of the Milk Marketing Board of England and Wales reveals a subsianilal loss by Dairy Crest the board's dairy product mar-keling division. The size of the loss is not clear from the report. but il could he as high as £3.5m

on a turnover of £775m. The result reflects the highly competitive nature of the dalry product market. But the MMB performance compares very unfavourably with that of competing commercial companies such as Unigate and Express Dairies, who pay the same price for their raw majerial.

ll is certain to draw more criticism of the MMB's purchase of most of Unigate's creameries nearly three years ago, which are now responsible for the hulk of Dairy Crest's output.

The MMB's anoual report shows a Dairy Crest trading profit of £17.1m for the year ended March 31, £3.1m less than the year before. But the com-pany had to pay £12.8m interest to the MMB and £5.6m interes: on other horrowings. This produced net loss for the year of £770,000 compared with last year's profit of £455,000.

The main reason for the poor result was the collapse of the cheese market in the spring. In addition, due lo bad weather. milk supplies 10 Dairy Crest were pearly 1 per cent down Another problem was last year's font-and-mouth disease

outhreak which elimioated UK products from several overseas markets. Most significantly it slopped the promising export of skim milk powder to Mexico.

### **Depressed** sugar outlook

By Terry Povey

AN INCREASED prediction for world sugar production and a 1.41m tonne rise in stocks forecast for the end of the 1981-82 season led lo B drop in prices on the London futures market yesterday. The October posillon fell lo £130.4 per tonne, down £9.50 from

the previous day's close. West German statistician F. O. Liebt in its latest forecasis put world sugar production at 98.65m tonnes, up 1.14 on its previous estimate, and consumption at 90.3m tonnes, down against 444.000 tonnes on eartier figures.

On this has the sugar analysts are expecting that by the end of this crop year. August/Septemher, carryover stocks will reach the record level of 32.77m tonnes.

Yesierday's fall ended a period of slowly rising prices that bad run since early June. Traders expect that the un-derlying bearish picture reflected in the Licht estimates could well now reassert it-

self in the market.

Reports of substantial
Philippine sales and Chinese purchases bad combined with technical resistance to any easing of prices earlier in the weck but traders' overall expectations restorday were of continuing personsness in tha market until the results of the European beet tests are known at the end of this

### Copper values fall back

By Our Commodities Staff

mission, which opens in the London Meial Exchange in the Last year a call for a moratorium failed narriwly to win the required 75 per cept support. but campaigners are \$77 in the previous seven trading days, was quoted £10 down at £843.50 a tonne at the official LME close, although it steadled somewhat to after hours deal-

The market, which had been lifted by reports of Chinese buying, was oepressed yesterday morning by Japanese selling.
The price upsurge was actually halted oo Wednesday

after the cash metal had traded al £862 a lonne.

### FARMER'S VIEWPOINT

# Farming à la Russe

the Dardenelles jo 1914, some grain ships were locked into the Black Sea. They had been awaiting the Russian

Today those same snips would be probably be bringing grain to low, and the gas would be the Soviet Upioo. Even until needed at home. Of course a the carly 1970s, the Soviet trans-Russian, gas pipeline would in that case be handy for would in that case be handy for .Today those same ships would exporter rather than a substan-tial importer of graio. But since 1972 imports have soared, risiog to 42m lonnes in 1981-82. Accrding 10 J. H. Parrotte, Director General of the International Wheat Council, they are likely to average 30m tonnes annually in the years ahead. He was speaking at a Resource Surveys conference on "The Soviel Union and the World's Commodity Markets in the 1980s," in London last week.

Mr Parrotte's paper underlined the main lesson of the conference, which was that the Soviet's interest in commodity trading was to secure foreign exchange with which to buy For that reason they bave

heen mining gold, diamonds and metals in Siberia under some of the world's harshest physical conditions. There sales are not governed by actual market conditions, but by the need for foreign exchange at certain But II is one thing to produce sheep breeding project. This periods to sustain themselves a farming plan and quite contained in its conception and

A fact worth bearing in mind, and their satelite countries, is that when the Turks closed One speaker even questioned the real need of the Soviet Upion to export natural gas through the projected pipeline to Western Europe. Within a few years, he claimed, the country's oil reserves could be running

> bringing it to Western Russia. The general view of the speakers was that the continuance of these exports was entirely deocadent on the degree of failure to replace soaring food imports with bome moduction. Mr Brezhnev and and have planned a fined pro-gramme for the decade polil 1990. This concentrates on reolacing these imports and in particular to improving the supoly of meat and milk pro-

To that end it is planned to raise fixed production assets in farming by 50 per cent and inorganic fertilisers by 70 per cent, together with a substantial investment in the processing and distribution of food between the farm and the shops. Incentives will have to be given to members of the state and collective farms, to hecome more efficient.

spother to get it executed. Nor execution, almost every mistake, does a mass of fertiliser, machinery, seed and labour, necessarily guarantee a single apolication of some basic human skills, which seem to have been munist system as it is practised in Russla.

I specify Russia, because in China. Communism is essentially feeding a population four times as large as the USSR from a much smaller area, with the application of massive man-power and considerable farming skills. There is virtually no mechanisation on

In Poland, in spite of a large private farming sector, food im-ports are a considerable burden, and in the Danube basin countries, once grain exporters, imports are needed.

Hungary is often quoted as the ideal compromise, with a large private and co-operative sector. Most livestork produc-tion is in private hands. But Hungary is a small conptry with a fairly relaxed political system and the farming is up to date, with access to the best of Western knowledge. But even here some things can go wrong. On one of the few state farms I visited was a

extra husbel of wheat or kilo who showed me round, who of heef. Farming oeeds the pooh poohed the ideas, as in deed he had every right to do.

When I revisited the same area suppressed inder the Com- some three years later I asked to see them again. Things had not gone to plan. The originator was a scientist, and the last thing for a scientist to get his hands on is a practical project. If he is backed by the full weighl of government, as in a Communist state, his capacity for multiplying his errors is ublimited.

In Hungary there are still some individuals in power who woold have knowledge of the peed to question the official line on farming practicalities. But in Russia, after 65 years of centralised policy making, there is no hasis of enmparison. The Russians, as one speaker told us, have replaced the recessionprone capitalist economies with inefficiency. low productivity and over manning. Even where, as in farming, the basic knowledge is there at the top. it cannol get applied at grass roots level because of the inflexibility of the regime. Western farmers selling to the Soviets trust the Russians never learn to do otherwise.

John Cherrington

# Campaigners seek end to whaling

BY RICHARD MOONEY

RENEWED EFFORTS to bring reduced from 46,000 to 14,000 in a way that supported their and end to whaliog will be made at the annual meeting of the International Whaling Com-

be defeated this year.

At a joint Press conference held by the various antiwhaling groups in London yes-terday. Sir Peter Scott. wellknown paturalist and a memher of the UK delegation to the IWC, declared: "We do not know enough about whales to go on killing them."
One species after another

had been brought to the brink of extinction, Sir Peter said. The, annual catch had been

in the pasi ten years, he noted. but this was "not good enough."

Mr Jean Paul Forton-Gouin. scientific adviser to the St Lucia delegation, cast doubts on the reliability of the data used by the IWC's scientific committee lo making its recommendations. Most of this was sup-plied by Japan, the world's leadded to confirm suspicions that the information put before the committee had been "selected."

"Science is being replaced by plitics," Mr Fortop-Gouin politics," claimed. He sald it was suspiclous that scientists from whaling countries on the 90member always to interpret the evidence whaters.

government's policies.

Mr Forton-Gouin's doubts about the value of available scientific data were shared by Mr William de la Mare, a mem-ber of the scientific committee. criticised the crude methods used for assessing whale populations which in general gave no warning of a decline unti "the final collapse."

ing whaling nation. Japan's This year the conservationists refusal to allow the committee are calling for a "cessation of access to its original data tentoriom" or "ban" sought in previous years. It is thought, for some reason, that this word will be found less objectionable. But whatever it is called the fear remains that a whaling ban that scientists from could drive whaling countries countries on the 90- out of the IWC and so beyond committee seemed the inflnence of the anti-

### Farm loans rate reduced

By Our Commodities Staff THE Agricultural Mortgage Corporation has reduced the rate of interest for new variable rate loans with effect from today. But the new rate of 14 per cent, down from 14.75 per cent, will not henefit existing borrowers yet. The next quarterly review date for existing variable rate loans is September 1.

The rate for new fixed rate loans remains at 15 per cent AMC resterday confirmed the appointment of Mr John Page as chairman. Mr Page, until this year an executive director of the Bank of Eugland, takes over from Mr Jobn Glyn. AMC chairman for 18 years, who is retiring, Mr Page is also a director of the Nationwide Boilding Society

### LONDON OIL SPOT PRICES

Lateci + oz -CRUDE OIL-FOB IS per barrel 

Premium Gasoline 539-349 -1.0 Oas oil ... 262-271 -1.5 Heavy fuel oil ... 163 168 -2.0 **GOLD MARKETS** 

Gold rose S! in 80491-3501 in 347; and was fixed at \$347.75 in \$356.00. the morntog, and \$350.25 in the afternoon. Gold tollifled a pear of \$353-353; and a low point of \$51.

was fixed at FFr 76,500 per kilo 1834278 per nuncel in the morning, compared with FFr 76,500 (\$343.09) to the afternoon, and FFr 74,300 (\$334.86) The day. Fr 74,300 (8334-86) The day.

In Frankfuri the 124 kilo bar Section (8548-72) and 128,770 per kilo November 124,877 per ki

was fixed at DM 28.770 per Fillo 18349.72 per ouncer, against DM 28.380 (8554), and closed at 8359-351 compared with \$352;

# GAS OIL FUTURES Prices Iell Jurner in early trading on hearith U.S alock ligures Political nervousness encouraged commission house buying pushing the market higher and a strong Nevi York opening reinforced the move, reports Premier Man

July .... 269,50 - 1,50 269,50,85,50
Augual ... 274,50 - 2,72 274,75,69,25
Sopl ... 274,75 + 2,50 274,75,69,26
Oct ... 276,75 - 1,75 276,75,71,75
Nov ... 276,25 - 1,25 276,09,74,00
Occ ... 279,50 - 1,00 279,50,75,00
Jan ... 280,50 - 1,00 280,50,77,00
Feb ... 283,25 - 0,75

Turnovar 3,232,14,282,145,54,145,54,145 PRODUCTS - North West Europe CIF 's per lanna

In Luxembourg the 12; kild the Landon bullion market har was fixed at the equivalent yesterday. It opened at \$346; of \$346.50 per ouoce, against In Zurich gold finished a

In Paris the 12 tile gold har LONDON FUTURES

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nover: 1.043 (1.201) tets of 107		4635 43 5 6783 95
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-		Gold Bullion	I'ue onuce	
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		Gold Con	ns July 15	
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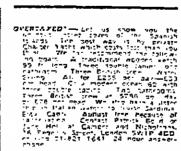
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Commodity Investment," please

write to: Lyall Investment Management, Thames House, 77a Higo Street, Esher, Surrey KT109QA.

### TRAVEL



### ART GALLERIES

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### BRITISH COMMODITY MARKET BASE METALS

BASE METAL prices were very quiet on the London Metal Exchange, with the exception of Coppar. After an initial weakening in reaction to the previous day's strong performance, which brought the metal to the day's low of £532, good buying came in and copper moved chead steadily to closs the late Kerb at £861, with a further advance after hours to £969. The vess shally £6777 3, Lead £331.5, Zinc £437 5, Aluminium £531.5 and Nickel £3003

Oct 276.75 -1.75 276.75-71.75	Middle Cools and Mickel Coops	
Nov 276,25 -1.25276,00.74,00 Occ 279,50 -1.00279,50.75,00 Jan 280,50 +1,00280,50.77,00	COPPER Official - Unofficial	:
Feb 382,00 -1.00 - March 283.25 -0.75 -	HighGr do E E E	2
Turnaver: 3,223 14 3881 lots of 100	Cash 644.5.5.5-16.2 843 4 - 3 mins 855.25 -10 656.5 -	
	F-141 0.15 E 10	
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har was fixed at the equivalent of \$346.50 per quoce, against	Amalgamated Metal Tracien repor-	
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In Zurich gold finished at \$349\-3507 compared with \$350-	17 OF 58 OF 59 OF 60 CO 60 50. 56	Ġ
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15 00, 36 00 28 30, 34 00, 34 80, 13 00 Kero Terms months 642 00 15 00 46 kero Terms months 643 00 18 50 18 60 Kero These months 643 00 18 50 58 00 37 00, 38 00, 27 00. Terms of 13,775 for the
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Aluminium:—150 m., Toron and a construction of the state

# Spol..... 2985.90 -13 2980.5 -30 3 months 5000.10 -17,5 3000.5 -32,5 \* Cents per pound. # M3 per kilo, I On pravious unoficial close.

SILVER
Silver was fixed 6 to an ounce lower
for spot delivery in the Landon bullion
market yasigrday at 375 9c. U.S. cent spurvalents of the living levels were.
soot 643 Zc. down 13 ag three-month
670 1c. down 1Sc. six-month 694 2c
down 13 9c. and 12-month 737 6c. down
15 2: The metal opened at 370-373p [640-644c] and closed at 376-373p
/647-651cl.
SILVER Bullion + or L.M.Eor

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3 <b>5</b> 7	SE 3	3		- fi	erngan	. three
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CO	CC	A				

Futures noticed \$15.00 lower but strategies on trade house support for on too to trade within a narrow range or mised conducted. Market sentiment remained understance to be too too business the support of new flowers.

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COFFEE	Yest day t	- cr	Susiness Dono
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ICO Ind	5 (*15.2%)	d) C	

### GRAINS

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# LONOON GRAINS—Wheat: U.S. Oark Northern Spring No. 1 14 per cant Aug. 112.50. Sept. 111 25. Oct. 112 00-11318-1179. Sept. 115.50 East Coast, Nov. 118 00 East Coast sellers. Maize: French July 138 00 trenshipment South Coast seller Barley: English Fead teb July 104 25 Gunness, Aug. 104.50. Sept. 107 00 East Coast seller. Rest unquoted.

ICCO-Oaily price for July 15 71.48 72.24) Indicator price for July 15: 72 50 (72.61).
The London physical market opened Lewis and Peat recorded an August tob price for No. 1 R55 in Kuala Lumpur of 200 75 t201 00) cents a kg-and-SMR 20 175 0 (same).

No. I R.S.S.	Ysst'r'ys Gloso	Previous -	Business Dono	
Aug Sepi Oci Dec Jan-Mar Api -Jno Jiy Sept Oct-Occ J'n-Mch Api Jne	49,90-50,20 50,80-51,20 52,50-52,60 55,30-55,40 58,00-58,20 60,80-60,90 65,50-65,60 66,10-66,50 68,70-69,50	50.00-50,50 51,50-51,70 54,50-54,70 57,20-57,30 62,00-60,10	50,00-43,70 52,50-31,80 55,50-34,90 58,10-37,50 60,90-50,30 65,50-63,20 68,50-65,70	

Sales, 140 (142) lots of 15 tonnos. 25 thut lots of 5 tennes.

Physical Ilosing pricas (buyers) were Sport 48 750 (45 250); Aug S1 25p (51 75p). Sept 51 50p (51 90p). SOYABEAN MEAL

mines trad	ket opened 20g ing reports T ( Bined steady in	Reddick good two-
	Yestordya + or Close -	Businesa Done
	per lonne	
August. October Occ Feb April	125.00 26.8 — 0.95 129.03 28.6 - 0.35 154.00 54.2 — 0.15 157.50 58.0	

Sales: 60: (61) lots of 100 tonn 

# SUGAR

LONDON DAILY PRICE—Raw sucer EID OF 1925 FOI in tonne of July-Aug southerest. White sugar daily price (1940 or 1953) on the second price to left but she indeed with caused prices to left but she indeed with caused prices of the but she indeed would stock the sale was a sucre soon recovered. Following tracks again eased, reports C. Crampers

No. 4 Con- trast	Yesterday closs		done
	£ pc	tonne	
May Aug Oct Sale:	147,55,50,45 155,75,55,50 141,30,41,45 143,60,44,60 147,00,47,45 120,30,30,75 1, 6,515,75	155,09-54,00 157,09-53,00 157,69-60,75 251-1015-61	140.00 23.00 125.00 151.25-40.50 151.25-40.50 157.40-47.25 157.50 50 tonnes
general [40], Ot	and Lyle tren basis I (same) a 30 00 (22)5	white is leane for t	ugar (985 icme (1938

PRICE CHANGES

in tonnes	MIN-958 OF	i de mei 20	DIRIGO.
	July 15 1862	+ or	Month ago
	-		
Metals Aluminium	. £810,813	ا برواند و	JIB/0181
Fran MKL		-10	Pan=1830
Copper	2843 5	-10	£715
5 mths	£858 25	-5.25	£737,\$5
Cash Cathode.	£823	-5	£705
5 mins	£839.3	-4.6	2727,25
Gold troy oz	¥350		5305.5 -
Lead Cash	_ #330		£283.5
3 mths	£348.5	+ 1,25	£293.5
Nickel	£4080		6502X
Free mkt	, 233/4030		240/2/98
Platin'mtr oz's	£260	,,,,,,,,,,,	C250
Freemkt	£175.05	-1.1	P145 35
Quicksiivort	, \$360,370		370/880.
Sliver Iroy Oz	575.SOp	-0,1,	qcs,,puc
5 mths	. 386,30p	-8.1	13.130
Tin Cash	£6637.5	-8	3400
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i nugerguezioit	14103,40	·************ 1	7 10.00
Wolfrm 22,416bs	2117/116		111 114
Zinc Cash		-5	380.5
3 mtha	£436,25	-2.5 £	380,5
Producers	;\$800		800
olis			
Coconul (Phil)	SARRY		1500
Croundnut	5565v		590
inseed Crude	£553		365
Palm Malayan	5425y		485
Seeds			
Copta Ph lip	5520v		340
oyabean U.S.1	\$257	-2 8	259,75

_	Grains	
·III	BarleyFut. Nov £108.10	"£104,5
C.	Maize £136,00	, £136,7
NO-	Wheat Fut Nov £114,00 No.2HardWint: :	+0.15.£108.3
••	Commodities .	
_	Gocca ship't" £943 Future Sept £907.5	-8 £890 -8 £858.5
	Coffee Fl'Sopt £1114.5	+5.5 £1115.
	Cotton A.Index 79.00c	75,60c
	Gas Oil Aug 5274,5	+8.75 \$270
9.50	Rubber (kilc., 48,75p	+0.5 47.750
5.50		+0.5 47.756
3,24	Sugar (Rew) £193v	-5 £95
	Woolt'ps 64s kl., 586p kild	.—5 i397 picili
3.70	t Unquoted. x Aug-Se	
	w Aug. 1 Per 16-lb fl	ask. "Gnana
85	cessa. n Nominal.	
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Service of MDICE2
FINANCIAL TIMES
July 14 July 15 MTh ago Y ar ago
256.04 255.53 224.85 260.40
(Baas: July 1 1952 = 100)
REUTERS
July 15 July 14 M'th ago. Y'ar ago
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(December 31 1931 - 100)
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442. rel. Oct 440. 445. rel: Dec 441. 448. rel. Jan 442. 450. rel. Sales: 46.

Spot 125,69 125,14 120,93 — Futr's 126,98 126,95 119,34 —

(5358: Oscomber 31 1974 - 100)

LIVERPOOL—Soot and shipment sales amounted to 100 tonees. Further demand strengthened, but the officke was mand strengthened, but the officke was international Sugar Agreement (U.S. copts of natural feb and stowed and strengthened interest was allowed copts of natural feb and stowed and strengthened interest was allowed control of 10 (3.5); 15 (4); accretion miner support in African qualities. Mindle Eastern Qualities. Mindle Eastern

### AMERICAN MARKETS

NEW YORK, July 15,
Heating oil was moderately higher on the trad-fron conflict. Precious metels were sherply lower on profit-taking and on failure to react to lower interest rates. Copper came under pressure Irom erbitrage selling and technical selling. Heavy trade selling pushed cotton lower. A more favourable weather forecast for Brezil attracted commission house selling in Coffes. Suger railied moderately on short-covering despite a beensh private production estimate. Leported Heimidd:

Copper—July 83:85 (64:70), Aug 64:40 (65:25); Sopt 65:05:65:15, Dec 67:50-67:60, Jan 65:30, March 69:90-69:35, May-71:35, July 72:80, Sept

74.30. Oac 76.50, Jen 77.25. March 78.70. May 80.15.

"Gold—July 344.1 (347.4). Aug 345.3"346.0 (349.2). Sapt 349.7. Dct 353.0.
April 377.5. June 386.7. Aug 394.0.
Oct 402.5. Dec 411.0. Feb 419.6. April 428.2.

"Platinum—July 285.2 (290.1). Oct 294.1-295.0 (298.6). Jan 302.4. April 311.1. July 319.0: Seles: 2.029.
Potatoes (round whites)—Nov 71.5 (66.0). Feb 72.0 [72.2). Merch 82.4.
April 93.4-93.5.
"Silver—July 633.0 (646.0) NEW YORK, July 14,1 ††Cocos—July 1401 [1438], 5ep1 1441 (1478), Ooc 1506, March 1573, May 1515, July 1557, 5ep1 1634, Sales: 1,945,

Potatoes (round whites)—Nov 71.5 (68.0). Fab 72.0 [72.2]. Merch 82.4, April 93.4-93.5.

\*\*TSINTEN—July 633.0 (646.0). Aug 835.0 (649.0). Seot 643.0-546.0, Osc 649.0). Seot 643.0-546.0, Osc 649.0). Seot 643.0-546.0, Osc 649.0). July 724.0. March 788.0. May 708.0. July 15. Sales: 10.20. May 10.50. July 70.50. 10.20. May 10.50. July 70.50. 10.20. May 10.50. July 70.50. 10.20. May 10.50. July 70.51.0.00. Sales: 10.20. CHICAGO. July 15. Lay—Chicago logas 22.00 (21.75). Live Cattle—Aug 64.80-64.75 (68.21. Oct 62.95-82.85 (62.50). Dec 62.90. 62.80. Fab 82.15. April 81.82. June 82.70. Aug 81.50. 1. Live Hogs—July 60.95-61.00 (60.50). Aug 83.95-83.00 (58.91.) Oct 77.15-70. March 77.15-70. May 70.95-70.70. March 77.25.77.8. March 77.15-70. March 77.15-70. May 70.0-73.35. May 63.90. July 70.55-70.70. 180.95-70.70. 180.95-70.70. 180.95-70.70. March 77.50.70. March 77.50. Mar

### **EUROPEAN MARKETS**

EUROPEAN MARKETS

ROTTERDAM, July 15.

ROTTERDAM, July 15.

Wheet—(II S.S per tonnal\* U.S. No 2 Red Winter July 143 U.S. No 7 hose Amber Durum July 170, Aug 171, Sept 174, Oct 177, Nov 180, Duc 184. U.S. No Two Northam Soring 14 per cent July 178, Aug 174, Sept 175, Oct 177, Nov 179.50; Dec 183. Cenadian Weetern Red Soring Aug 189.

Maize—(II S.S oer 175, Oct 177, Nov 180, Dec 180, Lenadian Weetern Red Soring Aug 189.

Maize—(II S.S oer tonne): U.S. Nor 179.50; Dec 183. Cenadian Weetern Red Soring Aug 189.

Maize—(II S.S oer tonne): U.S. Nor 179.50; Dec 1835. 1865 Mar 1752 1750; May 124, Aug 1250, Sept 12250, Oct/Dec 1835. 1865 Mar 1752 1750; May 1783/1810, July 1810-1840, Aug 1835/1810, July 1810-1840, Aug 1835/1830, Aug 18

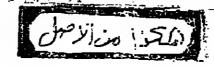
After quiet trade, reports Coley and Harper. Closing prices: Nov 55.00, -1.80 (http://doi.org/10.1000/10.1000/10.1000/10.1000/10

### MEAT/FISH

GRIMSBY FISH - Supply good, demand good. Prices at ship's side (improcessed) per stone. Shelf cod (mprocessed) per stone. Shall cod EACC-E5-00. codlinge £3.00-£4-50: large haddock £3.20-£4-50. med um £2.00-£4-70. smell £1.20-£2-40. large plaice £3.80-£5-40. medium £2.60-£5-60. hear small £3.40-£4.40; large skinned doglish £7.00-£7.50. med um £5-00-£6.00; large lemon actes £5-00; rocklish £1.60; sarthe £1.40-£2-00.

MEAT COMMISSION—Average fatstock prices at teareauntative markets
GB—Callle 101.27n per kg lw (~1.03).
GB—Sheep 128.38p per kg ast.dcw
(~15.31).
SMITHFIELD—Pench ps: pound. BeetScoich-killed sides 77.4 to \$3.5; Ulster
in ndousters \$3.0 to \$7.0 Veol: Outch
finds and ends 119.5 to \$2.5; Ulster
in ndousters \$3.0 to \$7.0 Veol: Outch
finds and ends 119.5 to \$2.5; Lamb:
English small 60.0 to \$6.7, medium
\$6.0 to \$2.0, heavy \$4.0 to \$6.0; Scotch
heavy \$2.0 to \$4.0, "Importad: New
Zealand PL \$2.0 to \$4.0, PX \$9.0 to
\$1.0 Perk: English, under 100 lb \$3.5
\$51.0, 109.120 lb 43.0 to \$2.5, 120-160 lb

\$3.5 to \$9.0.



# The cost of ignoring product design

By Christopher Cameron-Jones

ball-point pen it is possible to trated the disposable market. buy a abare in Platignum. Last week they were trading at 9½p per 5p share—valuing the troubled group at £4.2m.

Platignum—whose pens have been used by generations of UK

schoolchildren—has seen its sales and profits fall sharply in recent years. But under a new managing director and an injection of £1m of additional capital it is trying in reverse

Platignum, the former Mentmore Manufacturing Company, which pioneered low-coat steelnibbed fountain pens in Britain in the 1920s, ia still the major supplier of pens to schools in this country. But its "get 'em young" policy has heen proving less and less effective in a UK market worth around £100m a

year.
Ten years ago the company held 20 per cent of the retail pen market hy value. But by the start of this decade its share had fallen to 10 per cent.

### Competition from products at the cheap end

The market leader now ia Parker Pen, with 20 per cent, while Papermate, owned by Gillette, bolds around 18 per cent. Bic, of France, holds 10 per cent, Pental of Japan 8 per cent and Sheaffer, nf the U.S.,

about 5 per cent. Why the decline in Platignum's ahare? To some extent it may be due to competition frnm products at the cheap end nf the market — disposable hall points such as the Bic. For while Platignum has diversified away from its traditional fountain pens — which now account for only 25 per cent of its sales

FOR ABOUT the price of a Bic felt-tipped pens, It has not pene But Platignum admits that a major factor in the decline has

been its inattention to new dasigns and new products. Like the schoolchildren who use tham, its products have aged.

Amid the recession, the writing instruments market has been relatively resilient. Overall UK market volume has changed little in the last few years. But Platignum's profits have plummeted. In all but one year of the 1970s its profits topped £500,000 pre-tax, with a peak of £655,000 in 1978/79. But in the 12 months to the end of the 12 months to the end of January 1981 the group was showing a loss of over £444,000 and was cutting the workforce. Last year sales plummeted 24 per cent and total group turn-over slid frnm £10.5m to £7.7m The loss climbed to over £600,000 and for the second year

forgo any real dividend. But, earlier this month shareholders were heing told hy David Leeming, the company's new managing director, that

running shareholders had to

plans aimed at revitalising the group were under way. Mr Leeming, 34, a former senior marketing executive with Parker Pen in Europe, joined the board three months ago along with a friend, Mr Rodney Collier, 38, who la injecting his point-of-sale material designing and manufacturing company into Platignum.

Platigoum's takeover of R. P. rights issue and a placing mainly with City institutions.

Along with two new noning and Mr Collier bring the average age of the Platigoum

hoard down to 41.



MR DAVID LEEMING

catch up with foreign competitors whose new designs flonded the UK market in the late 1970s while Platignum was resting on its laurels.

By the time Platignum's management realised it was not devoting enough attention to the problem profits wera contracting so fast that it was wary of venturing into pasturea new. As the losses mounted cash was needed to maintain the existing

When Mr Leeming arrived be discovered that the company's Collier, involving a £200,000 designers had drawers full of share deal, was part of a £1m cash injection arranged in March this year by way of a —and a good many of them —and a good many of them nffered exciting possibilities.

The company now plans to launch two or three new pro-

Platignum has also heen re-examining the structure of demand. Some 30 per cent of The new capital will he used the UK market in value terms

at Platignum, aside from those pens bought retail for children from £0.14m to £0.1m. to use in school, gifts represent

only a tenth of sales. unit sales terms—some 6m are sold a year-it has been pushed far into the shadows by 200m hall points, and 200m felt and tipped pens. Recently introduced roller ball wet inkers bave meant further com-

The company believes there is no logic in attempting a major assault on the disposable ball point market. As for felt tips and fibre tips, sales are hampered by foreign competi-tion, chiefly from Italy where, auhsidies mean producers can make plastic components cheaper than Platignum can huy the raw materials. So the company's main drive will he on middle priced hall-points and fountain pens.

Mr Leeming is aiming for a 70 per cent volume increase nver the next three years: "This is not asking for much in the context of a worldwide market of over £1hn. We are going for per cent of this in areas that we are good at," be says.

Most of the growth is seen coming from exports. The group bad already good distri-butor links with the old Commonwealth countries and the U.S. and is currently improving its links with the Middle East and hopes to create a good network in Europe, where it has performed very poorly in the

In its last financial year exports fell from £1.6m to just over £1m, ahout 13 per cent of total turnover, with North America becoming the largest customer at £0.3m, while the - into refillable ballpoints and mainly for the introduction of is represented by gifts, ranging Middle East business collapsed,

Other EEC countries was down

depend on Platignum contain-While the fountain pen retains its image as the instrument
to use to write with style, in
more than balved from 1,000 to 450 and automation has been introduced at its 160,000 sq ft factory and offices block at

occupied by plastics moulding, which, as well as providing pen

### No real growth in plastics moulding

But Mr Leeming believes that measures taken have put the group back on course for re-covery. The point-of-sale busi-

approach breakeven in the year to the end of January 1983 with an upturn to profits of the order of £700,000 for the following 12 months. Mr Leeming has underwritten his optimism hy rais-ing around £35,000 secured against his home to buy a 1.2

In 12 months' time be should elsewhere, if not on Bic pens.

from packs of felt tips for mainly as a result of the war children's hirthday presents to £1.000 gold fountain pens. But £0.7m to £0.12m and trade with

Stevenage. Half the factory space is

components, handles sub-contract work for such companies as Black and Decker and Electralux. But the plastics mould-ing industry generally was run-ning at 42 per cent helow capacity last year and Platig-num's turnover here fell 35 per cent. No real growth can he expected in moulding in the

ness Cnllier, where pre-tax profits jumped from £27,000 to £100,000 last time, is seen as be-coming a major contributor.

per cent atake.

know if he would have heen better to bave spent his money

# **APPOINTMENTS**

Ulster Bank chairman ioins NatWest board

appointed a director of NATIONAL WESTMINSTER BANK, its parent Bank. Mi O'Reilly served on Ulster Bank's advisory committee from 1959 hefore hecoming a director in 1961 and deputy chairmon in 1974. He became chairman earlier this year. Since 1955 he has been chairman of Irish Distillers, although he will be retiring at next February's annual meeting He is also chair. annual meeting. He is also chairman of the Royal Dublin Society.

Mr Michael Figg, Dr Jim Pearson, Mr John Bradbury, Mr Reg Dahbs and Mr Jim Keilie have been appointed to the board of LONDON AND SCANDI-NAVIAN METALLURGICAL NAVIAN COMPANY.

MORISON STONEHAM
INVESTMENT MANAGEMENT
has appointed Mr Michael BoydCarpenter to the hoard: The
compacy is the investment management business of Morison
Stoneham and Co.

Mr Max Blackston, currently chairman of CER (the Research International agency in Italy), will he returning to the UK on will he returning to the UK on August I to become chairman of one of the Rl UK companies. MARPLAN. Mr John Futier of Marplan will take on general reaponsibilities for account development. Mr David Cahn, resources director of RIa other residents. main UK agency, RBL, will shortly be transferring to Italy to succeed Mr Blackston as chairman of CER. Mr Cahn's place on the RBL board will be taken hy Mr Jon Wilkinson, currently an operations director.

BPCC has appointed Mr Roger Hntton as group sales director. He will continue to be sales and marketing director of Waterlow

Mr Eric C. Reed, director of engineering for the THAMES WATER AUTHORITY, has decided to take early retirement from Navember 19.

The Earl of Euston, an Aged has placed a £1.1m con-governed by a compute assistant director of J. Henry tract with BOVIS for the conver-automatic control system.

Mr Frank O'Reilly, chairman Schroder Wagg and Co., has
Ulster Bank, has heen heen appointed an executive
pointed a director of director of the London-based
ATIONAL WESTMINSTER operation which, subject to approvals io Sweden and the UK, SKANDINAVISKA ENSKILDA BANKEN is setting up to develop its role in the inter-national capital and corporate finance markets. He will be responsible for corporate finance.

> SEALED MOTOR CONSTRUC-TION, a member of the Adwest Group, has appointed Mr John P. M. Derham financial director. He has been company secretary for the past three years.

THE CHARTERED INSTI-OF TRANSPORT has etected the following for the vice-chair, year commeocing October 1: Williams.

president-elect: Mr L. S. Payne, director, J. Sainshury; vice-presidents: Mr R. Brook, chief executive, National Bus Company: Mr G. C. Edmunds, formerly British Transport Staff College; Mr J. F. Magina, general manager, Coras Iompair Eircann; Mr G. Myers, member, British Railways Board; Mr J. K. Sluart, chairman, British Trans-port Docks Board; and Mr P. A. Thompson, chief executive, National Freight Consortium. Treasurer: Mr A. J. Tomsett, finance director, British Trans port Docks Board: Librarian: Mr N. J. Payne, chairman, British Aisports Authority. Secretary: Mr T. L. Beagley, past

THE INSTITUTION OF PRO-DUCTION ENGINEERS has elected principal officers for the year 1982-53: president: Sir Robert Telford; vice-presidents: Professor Martyn Farley and Mr Alex Houseman; chairman of council: Mr Alan MacGregor; vice-chairman:

### **CONTRACTS** £14m pipelaying order

Thames Water Authority's periodical pipelaying and repair contracts. Under a contract valued at more than £14.5m the company's Swindon-hased distri-bution region will lay new pipes and carry out alterations, repairs and emergency tasks on Thames Water's clean-water systems throughout three large zones in Greater London. The contract will run for three years.

CHARTERSET UNSULATION, Grantham, has been awarded a £2.75m contract for the new Yarmouk University Campus in Jordan. The order is for the supply and installation of ahout 16 km of an underground heating main distribution complex using a patented pre-stressed steel cased pipe-in-plpe system complete with a computer alarm system. Main contractor is Hanbo General Construction Company of Seoul.

floors of sheltered housing. This will result in 36 one and twoperson flats, together with warden's accommodation, and a passenger lift installed in the church tower.

GEC RECTIFIERS has received an order worth £2m for the aupply of 26 power conditioning units for Canadian built light rail vehicles. The contract was obtained through GEC Canada of Toronto who negotiated an order from Metro Canada for a bulk purchase arrangement to supply up to a total of 200 units for use in Intermediata Capacity Transit System (ICTS) contracts handled by Metro Canada. These variable frequency, variable voltage high power translator inverters rated at 670kVA and mounted on the underside of each railcar, provide power to the linear induction motor drives. Speed control of the vehicle is achieved by METHODIST HOMES for The frequency variation which is Aged has placed a £1.1m congoverned by a computerised

How Pilkington continues to grow and build worldwide sales -even in times of recession

These four illustrations show some of the innovations that have kept Pilkington a worldwide leader in the manufacture of

glass and allied products. With a full year's results of Flachglas included for the first time, world sales of £959 million are a record for the Group.

Adverse conditions in the United Kingdom led to depressed results, but these were partly offset by record trading profits overseas and increased licensing income. Our electro-optical companies had

a good year. Cemfil AR (alkali resistant) glass fibre has made important technical progress and we are convinced that it is now the best available replacement for asbestos in

industrial cladding and roofing products. There are signs that the worst of the recession is over in the United Kingdom, and the company expects to benefit from any recovery. Overseas, prospects are for a good performance overall.

The Group's balance sheet remains strong with a debt to equity ratio of

To find out how we are making progress just fill in the coupon and send it to us.

Financial Highlights £1	n 1982	1981
Sales to outside customers	958-9	786-8
Trading profit	26-7	48.2
Licensing income	39-4	35.3
Group profit before taxation	53.4	81.0
Group profit after taxation	3.5	48.8
Dividends	17-6	t7-6
Retained profit (loss)	<b>(6·9)</b>	18-7
Earnings per share	(3·g)p	24.6p
Dividends per share	10·5p	10·5p

To: The Secretary, Pilkington Brothers PLC, Prescot Road, St. Helens, Merseyside, WA10 3TT. Please send me o copy of the 1981/82 Pilkington Annual Report.

Top left: Pilkington glass fibre in a glass/nylon composite clarinet.

Top right: Pilkington at the World Cup. Pilkington Cemfil AR (alkali resistant) glass fibre reinforces the new facade at the Real Madrid stadium, scene of the 1982 World Cup Final

Bottom left: Future Home 2000, featured on The Money Programme, uses many Pilkington

Bottom right: Fiberlase, made by Group member

Barr & Stroud, treats internal bleeding without











Enterprise at work. Worldwide

### A FINANCIAL TIMES SURVEY

# REINSURANCE

SEPTEMBER 6 1982

The Financial Times is planning to publish a survey on Reinsurance in its issue of September 6 1982. The provisional editorial synopsis is set out below.

Introduction: World insurance markets are flooded with available reinsurance capacity. The numbers of risk carriers specialising in reinsurance continues to grow despite the prospect of huge underwriting losses as competitive pressures become more intense. An assessment of the underlying econmics of reinsurance and why the sector shows no sign of contraction in the numbers of participants.

Editorial coverage will also include:

The U.S.

South America

Underwriting Strategy Security

Captives—Companies

Pools The Americas—Canada

Bermuda Regional round ups of latest

development in-The Far East -Continental Europe

Life reinsurance Supervision

Copy date: August 6 1982

For further information and advertisement rates please contact: Guy Mainwaring-Burton

Financial Times, Bracken House, 10 Cannon Street, London EC4P 4BY. Tel: 01-248 8000 ext 3606. Telex 885033 FINTIM 6

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Please help—send a donation today to: Room F.1, The Multiple Scierosis Society of G.B. and N.L. 286 Munsier Road, Fulham SW6 6BE

Throughout Europe,

undertone of bond markets has

turned from cautious optimism

zero coupon bonds appeared to

be attracting buyers yesterday.

with the 20-year issue priced at

8.25 per cent selling better than

the 15-year priced at 14 per cent. Daiwa Securities said if had

placed its allotment in Europe,

and not in Japan as bad been

suggested by the lead-manager,

Dean Witter. Mr Gary Klesch.

president of Dean Witter Rey-

nolds Overseas, said: "We did learn that Daiwa had placed its

per cent this year. All opera-

The new American Medical

### Manny Hanny boosts **mcome**

By Our New York Staff

MANUFACTURERS HANOVER the large New York bank, managed to overcome losses from last May's Drysdale affair to report a 16 per cent increase in profits for the second quarter of this year.

Net income before securites transactions was \$63.8m, or \$1.79 a share, compared with \$55m, or \$1.63 a share in the same period last year. The biggest gains came from increased net interest income and other operating income, as well as from lower applic-stile income taxes.

Earnings for the first half of this year were \$126.3m or \$3.60 a share up 10 per cent from \$115m, or \$3.42 a share in the first half of 1981.

The bank's final losses from the default of Drysdale Government Securities amounted to \$21.4m, or \$8.9m after tax. This was partly responsible for the sharp 74 per cent increase in the bank's operating expenses during the mark. ing expenses during the quarter, to \$335.5m.

Chase Manhattan, which suf-fered the largest losses from Drysdale, has not yet reported for the second quarter. Its results are expected

### J. P. Morgan shows 10% first-half gain By Our New York Staff

J. P. MORGAN, parent of Morgan Guaranty Trust, the large New York bank, reported little change in earnings for the second quarter of 1982, as higher costs offset profits. Net income before securities transactions was \$96.8m, compared to \$96.6m in the second quarter last year, equivalent to \$2.35 a share in both cases.

Morgan, which specialises in wholesals banking, said that earnings from its lending business rose to \$277.1m, from \$233.2m, as both the volume of lending and the net yield suproved. Income from bond and foreign exchange trading was also

he stresses which blen interest rates are placing on borrowers showed up in a sharply increased loan loss provision. Murgan allowed for \$311m, up from \$256m

These are not necessarily loans which Morgan will have to write off, but it means

The results brought Morgan's half-year carnings to \$196.3m or \$4.76 a share, up 10 per cent from \$177.8m or. \$4.33 a share.

### **Allis-Chalmers** incurs further heavy fall

FRESH TRADING losses were suffered in the second quart-er at Allis-Chalmers, the Milwaukee machinery manufacturer, and the directors warn that there will be "continued erosion of earnings in the latter half of the year." .

Mr David C. Scott, chairman and chief executive, said that the balf-year had seen de-mand for farming equipment at its lowest level for a decade, the lift-truck industry in its worst slump for new orders since 1975, and demand for capital goods generally still depressed.

The second quarter loss amounted to \$18.29m, equal to \$1.45 a share, compared with 8 profit of \$4.6m or 37. cents a share last year. At the halfway stage the loss a share, against a profit of \$7.19m or 57 cents a share previously. Allis incurred a loss of \$28.8m for the whole of 1981.

The latest figures include preferred dividend requirements of \$2.5m in the second quarter Siemens-Allis to Siemens AG

of West Germany. Returns for 1981 include preferred dividend requirements of \$1.6m for the second quarter and \$2.2m for the

# Penn Square losses lead Seafirst to redeploy 400

BY DAVID LASCELLES IN NEW YORK

SEAFIRST, the Seattle bank Seafirst revealed earlier this usually large deposit outflows which suffered large losses week that its losses from Penn in the last few days, prompting through the recent collapse of Square could run as high as U.S. hank regulators to issue Penn Square Bank in Oklahoma. confirmed yesterday that up to 400 people, some 45 per cent of its staff, are to be "redeployed." The bank will also postpone merit raise reviews and will probably chiminste all 1982 management bonuses and profit-

The bank, which employs 8,000 people, said that many of the staff affected would "find other positions within the corporation. Every effort will be made to place as many of these people as possible."

As a result, the bank will the centre of rumours are not announce a loss for the first about to close their doors.

The Federal Deposit Insur-

measures were being taken to achieve cost reductions in the light of poor economic condi-

\$125-165m, or \$68-90m after tax. assurances that certain banks at

Mr William Jenkins, the Sea- ance Corporation has also first chairman, said 'the announced that uninsured tially more than the \$190m It tions and higher funding costs, had originally calculated. Most as well as loan losses. of these deposits were placed Meanwhile the collapse of by financial institutions such as Penn Square has had its expected ripple effect in the pet how much they will recover.

The FDIC itself guarantees only to \$100,000 in Texas have reported un-deposits of up to \$100,000

# Kuwait payment aids Reynolds

BY OUR NEW YORK STAFF

R. J. REYNOLDS INDUSTRIES, leader in U.S. cigarette sales and fourth in the world tobacco market, boosted second quarter earnings from \$199m, or \$1.82 per share, to \$295m or \$2,74 per share. Revenues rose from \$2.97bn .to \$3.1bn. The company said, however, that the quarter included a non-recurring gain of \$173m, or

87 cents, from an arbitration sward paid by the Government of Kuwait for nationalising its oil properties.

The half-year figures showed s gain of 24 per cent to \$480m, or \$4.43 a share, compared to \$387m, or \$3.54. Sales were

4.3 per cent up at \$5.99bn, com-pared to \$5.74bn. Mr J. Sticht, chairman and chief executive, said record domestic cigarette sales for the first half year reflected higher prices and also strong sales trends in such favoured hrand

names as Camel and Vantage. On the international side operating earnings were down despite higher sales. Mr Sticht blamed this on the strength of the U.S. dollar against other currencies and also on a fall in

Del Monte, which is Reynolds' food industry subsidiary, has seen lower sales in the U.S.

by higher cos Sea-Land Industries Invest-

ments, the transportation unit which includes the world's largest container operation, continue to push both sales and earnings ahead.

Mr Sticht disclosed that tha compensation payments from Kuwait will be used to "increase marketing activities" in Reynolds' proven performers in the tobacco business and to bring forward new products to support Del Monte in its further penetration of consumer mar-kets. About \$17m has been so

# Searle lifts earnings and sales

BY OUR NEW YORK STAFF

G.D. SEARLE, the pharmaceuticals and optical products group, has reported second quarter net profits of \$32.5m, or 64 cents 8 share. A year-earlier loss of \$3.2m included a \$35m write-off: of a medical products business which was

Net profits from continuing operations rose by 11 per cent while second quarter sales rose by 9.7 per cent to \$257.4m from \$234.7m a year earlier. This brings Searle at the half-way stage to net profits of \$60.8m, or \$1.20 a share, on Searle plans to spend about sales of \$492.3m, compared with \$100m on research and develop-

provisions associated with the discontinued medical products Sales this year have been boosted by such new products as Nutrasweet, which Searle says has already taken 10 per cent of the \$200m market for

sweeteners. Wall Street analysts are forecasting full-year profits from continuing operations of \$2.80

net profits of \$18.9m, or 36 ment of new drugs this year, an cents, on \$451.7m. Last year's increase of about one-fifth over net includes a total of \$35m of 1981. Although the results of appear on the bottom line for four or five years, it is seen as a strong point for the shares, which are trading at an eight-By comparison with the drug side, Searle's optical division, which operates nearly 1,000 re-

year high of about \$36. tail stores, bas been hit by the recession and its effect on con-sumer spending. However, the hoard is expanding the opticals side and expects sales to re

# **Downturns for Grace and Allied**

BY OUR NEW YORK STAFF

panies, reported yesterday the latest figure included a to write off, but it means lower second-quarter earnings, \$65m gain from the sale of its borrowers are falling to keep up payments. Lurn in their industries. \$65m gain from the sale of its chemed subsidiary. Six months' turn in their industries.

Grace's net earnings declined.

23 per cent to \$76.9m from a Grace said second-quarter year earlier. Sales totalling operating earnings of its \$1.6bn were 4 per cent lower. specialty chemicals business \$1.6bn were 4 per cent lower. Profits per share were \$1.59, against \$2.08.

Non-penforming loans increased from \$87.1m to \$384.3m. These are not necessarily cals and natural resources com-

rose 7 per cent, but the cyclical downturn in the agricultural

Allied reported secondquarter earnings of \$82m, down from \$87m a year earlier. Six months' earnings declined 15
per cent to \$145m from \$171m.
Sales in the second quarter
were virtually flat at \$1.6bn. First-half sales totalled \$3.21bn compared with \$3.18bn.

### Signal hit by depressed market in heavy trucks

heavy truck market has taken two quarters which would probits toll on the results of Signal ably exceed tha size of the companies, the multi-industry earnings fall of the first six company which has an 80 per months, mainly because of the cent stake in Mack Trucks.

Second quarter earnings depressed condition of the cent stake in Mack Trucks.

Second quarter earnings depressed condition of the cent stake in Mack Trucks.

Last year Mack Trucks concents a share to \$57.3m or 79 cents a share to \$57.3m or 51 cents a share to \$58.8m or \$1.02 on sales static at \$1.4bn, against \$1.34bn, involved in turbine engines.

to forecast confidently Signal's a share on sales of \$1.22bn profitability for the remainder against \$1.23bn.

of the year.'

THE depressed condition of the declines in income for the next

a share on sales marginally of Signal's sales. It is also ahead at \$1.45n against \$1.345n.

This left first half results 35 aerospace components, petper cent lower at \$68.2m or 94 roleum services and other cents a share against \$105.1m diversified businesses.

or \$1.45 on revenues of \$2.625n diversified businesses.

In the first quarter of the year, the California-based group also turned in sharply lower man and chief executive, said:

"It is impossible at this tima share against \$47.8m or 65 cents to forecast confidently Signal's a share on sales of \$1.225n. Nst profits for 1981 were expected \$214m or \$2.95 a share

### Advance at Raytheon By Our Financial Staff

RAYTHEON, the maker of air defence missile systems and other U.S. Government elec-

half results of \$165.16m or \$1.96 a share, up from \$157.17m or \$1.88 on sales slightly ahead at \$2.84bn against \$2.73bn.

The company said Govern-ment electronics systems, energy services and educational publishing performed well, but demand was still weak for aviation products and major appliances, because of high interest rates and the lagging economy.

# GTE reports second quarter rise

BY PAUL BETTS IN NEW YORK

poration, and the group looks \$5.24bn to \$5.93bn. set for a record year.

a share to \$200.9m or \$1.14 a. The company said both its cent rise in profits.

of \$2.5m in the second quarter and \$5m in the half-year. The latest pointing also includes a gain of \$16.7m or \$1.33 a share from the first quarter sale of shares in Siemens-Allis to Siemens AG creased 20 per cent over the For the whole of 1981, earn- same period last year. The com-Net earnings for the period ings reached a record \$782m or pany's communications products improved from last year's \$4.32 a share on peak revenues operations had a 20 per cent corresponding \$178.4m or \$1.08 of \$11bn. increase in sales and a 17 per

### Alcoa suffers sharp reverse

By Terry Byland in New York results

Aluminum Company of America (Alcoa), the world's largest producer of aluminium with 15 per cent of the global total, confirm the dire state of the industry. Mr Krome George, chair-

man and chief executive, made no forecast for the immediate future but com-mented that Alcoa's customers report that their inven-tories are at the lowest level for nine years.
Alcoa has managed a profit

of \$15.Im for the second quarter, down from \$8.5m in the comparative quarter, or from \$1.09 to 19 cents at the per share level. The effects of price-cutting in the of price-cutting in the industry are reflected in lower sales of \$1.24bn, against

For the half-year the \$39m operating profit is 79 per cent down on last year, despite help from an extraordinary gain of \$19.9m. Six months sales of \$2.45bn, compare with

Mr George commented that the company has been hit by low selling prices and high costs, and has been forced to shut down. Alcoa has shut down about 9 per cent of its productive capacity to date, tha most recent being the permanent closure of its 145,000 tonnes a year smelter

in Texas. Mr George would not specu-late as to the outlook for the company or the industry, saying only that Alcoa is "concentrating on reducing exenses and positioning itself to take advantage of the upturn when it comes.

Recent months bave shown some indication that U.S. inventories of aluminium are declining. Earlier this week, Mr Cornell Maler, chairman of Kaiser Aluminum said he saw some signs of a turn-round in the industry.

Alcoa's shipments fell to 399,000 metric tonnes in tha second quarter compared with 412,000 tonnes a year ago. and 397,000 tonnes in the first quarter of this year. This suggests that Alcoa may be curbing sales rather than sell at prices often well below official posted levels.

### Apple Computer growth slows in third quarter

By Louise Kehoe in San Francisco

APPLE COMPUTER, the personal computer maker, has reported a 28 per cent rise in third quarter net profits of \$15.2m. or 26 cents a share, from \$11.9m, or 21 cents a year earlier. Sales rose by 57 per cent to \$142.7m from \$90.7m. For the nine months ended

June 25, net profit was \$42.6m, or 74 cents, on sales of \$407.25m, compared with \$28.4m, or 51 cents, on \$237.1m. These represented profit and sales growth rates of 50 per cent and 72 per

ent respectively.

Apple's performance pleased analysis who had anticipated that sales would be hit bard by increasing competition in the personal competition. competition in the personal computer market. Apple's strength in distribution and the wide variety of software programmes for its machines helped to keep sales up, sug-gested Mr Gregory L. Kelsey of Hambrecht and Quist, a San Francisco stockbroker. Apple's research and deve-

lopment spending has almost doubled over last year to total \$11.4m in the quarter and \$28.3m in the nine

The company is expected to introduce a new version of its Apple II personal computer later this year and a business oriented computer early next

### **CSFB** director resigns

By Our Euromarkets Staff MR DAVID MCCUTCHEON.

an executive director of Credit

Suisse First Boston, has resigned to join Salomon Brothers in London. Mr McCutcheon had been in charge of CSFB's Canadian business and had been with the Credit Suisse White Weld group before CSFB was formed in 1978; he joined White Weld 13 years ago. Mr Ian Molson, a CSFB manager, will take charge of Mr McCutcheon's responsibilities on a temporary basis.

GREAT WESTERN FINANCIAL CORPN. 297.1m 295.5m †12.8m †784,000 †0.57 †0.04

Nct per shere .....
Nine months
Revenue
Net profits
Not per ahere ..... 858.1re 792.0m 54.1m 4.0m 0.89 109.3m 8.0m 1.36

LIBERTY NAT. BANCORP NORTH AMERICAN PHILIPS

# Dollar bonds up slightly as markets' optimism wanes

Sumitomo Bank launched its

expected yesterday, and Mexico's

\$150m last night through lead-manager Merrill Lynch. There

amount further to \$175m

through Merrill Lynch before

the end of the month. The coupon was fixed at 181 per cent

All eyes in West Germany this

morning will be on the new foreign bond calendar, which was set last night. The D-mark

cent over the next three years.

However, the company bas won the principle of seven-day

EUROPES INTERNATIONAL \$12bn. bond markets slowed almost to a halt yesterday as dealers \$50m 151 per cent issue as reported extremely limited buying or selling activity. Prices of fixed-interest bonds in the Eurodollar market closed slightly is an option to increase the higher, while prices in the Euro D-Mark and Swiss franc bond sectors were unchanged on the

day.

Coupon was nxed at 15; per
The lack of activity was and a price of par was set. attributed to the market's un-certainty over the path of interest rates, and its guessing rame over the exact size of the forecast jump in the U.S. M-1 bond market beld back from money supply due to be trading in the afternoon, waitannounced today; estimates of ing for the results of the meet-bonds in Europe and not in the increase range from \$4bn to ing of the Capital Markets Sub-Japan as we earlier indicated."

Dominion Textile expects deficit BY ROBERT GIBBENS IN MONTREAL DOMINION TEXTILE, Canada's costs will rise by nearly 40 per largest textile group, expects to show a loss for the year ended

June 30. Sales will be down by about 15 per cent.

The group, which also has plants in the U.S., Europe, Latin America and Hong Kong. blames the world recession and blames the world recession and said Domtex's primary and severe labour troubles in secondary markets should Canadian plants in the fourth stabilise in the first half of the Domtex has recently settled

its union contracts covering The company was cutting nearly 10,000 workers in overbeads further and bad Canada. As a result, its labour reduced capital spending by 50

tions were being closely scrutinised, particularly those making products for the apparel industries. "We could emerge from this very difficult period working in its Quebec plants, and this will belp to offset wage looking somewhat different, In fiscal 1981, Domtex earned Mr Thomas Bell, president, C\$42.9m (US\$ 33.8m), or C\$3.93 a share on sales of C\$864m. Including sales of U.S. and other foreign silliates, sales reached about CSIbn. In current year ending June 30. the first nine months of fiscal 1982, the company earned C\$5.6m, or 43 cents a sbare.

\$100m bond was increased to earlier this week to nervousness.

### Steep recovery in profits at Safeway

SAFEWAY STORES, the big- affected by currency factors and gest supermarket chain in the U.S., has announced an increase of more than 60 per cent in second quarter earnings after a disappointing first quarter.

rose only marginally from \$3.78bn to \$4.04bn. This left first half earnings

ahead at \$58.1m or \$2.22 against \$45.47m or \$1.74 on sales of \$8.03bn compared with \$7.37bn. Profits rose from \$26.2m or \$8.03bn compared with \$7.37bn. for FASB 52 accounting regu-\$1 a share to \$42.1m or \$1.61, The second quarter increase lations, which reduced them by but sales were adversely reflects a particularly weak \$631,000 or three cents.

second quarter last year. It also includes extraordinary gain of \$6.2m or 24 cents a share from Nebraska, division. Last year's interim results were restated for FASB 52 accounting regu-

### FT INTERNATIONAL BOND SERVICE

The list shows the 200 latest international bood issues for which an adequate secondary market exists. For further details of these or other bonds see the complete list of Eurobond prices which will be published next on Wednesday August 18.

Closing prices on July 15 

will be published next on Wednesday August 10.	Citizent brices on and in
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Straight Bonds: The yield le the yield to redemetion of the mid-price; the amount issued le in millions of currency units except for Yen bonds where it is in billions. Change on week.—Change over price a week seriler.

Floating Rate Notes: Benominated in deliars unless otherwise indicated. Coupon shown is minimum. C.dis=Bete next coupon becomes effective. Spread — Mergin above alx-month offered rate (# three-menth; § above mean rate) for U.S. deliers. C.cpn—The current coupon. C.vid—The current yield.

Convertible Bonds: Canominated in deliars unless otherwise Indicated. Conj. day.—Chonge en day. Cnv. date—First date for conversion into shares. Cnv. price—Nominal emeunt of bond per chare expressed in currency of share at conversion rate fixed at issue. Prem—Percentage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares.

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10.76%

1220

23/90

17.1180

1,797

 $z\in \mathbb{R}^{n}$ 

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C. P. BARD

ALLIED CORPORATION

1982 1981 . \$ \$ 1,59bn 1.58bn 82.0m 87.0m 2.01 2.40 3.2bn 3.16bn 145.0m 171.0m 3.39 4.73 

NORTH AMERICAN QUARTERLY RESULTS

AUCYRUS ERIE

Second quarter Revenue
Net profitt
Net per share
Six months
Ravenue
Net profits
Net profits
Net per share 342.8m 220.2m 14.5m 25.4m 0.71 1.24 EASTERN GAS & FUEL ASSOCIATES | Second quarter | 1982 | 1981 | 1982 | 1981 | 1982 | 1983 | 1983 | 1983 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 | 1984 

Revenue
Net profits
Net per ahere

GEORGIA PACIFIC

1961 \$ 1,44bn 55,0m 0,52

112.2m 5.9m 1.33

1.53bn 1.35bn 29,7re 34.5m 2,15 2,57

| Change on | Chan

# THE BANKER

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- \* Government intervention in the financial sector
- ❖ Profitability in banking

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# German chemicals group closes plants and cuts workforce

BY KEYIN DONE IN FRANKFURT

chemicals subsidiary of Veba and a further 70 engaged in and the third largest plastics urea production at Brunsbüttel producer in West Germany, is are to go on short-time working being force dto cut its workimpose short-time working and close some plants in order to halt a drastic decline in profitability.

Hüls produced its worst DM 600,000 (\$240,000), com- force of 17,747. pared with a surplus of Hills plants worked last year DM 62.1m in 1980 and at 77 per cent of capacity com-DM 84.1m in 1979. The compared with 79 per cent in 1980, pany has operated at a loss in the first five months of 1982,

so far this year, While turnover increased modestly by 4.9 per cent to DM 5.98bn, the volume of sales dropped sharply by 13.3 per cent to 51m tonnes. The volume of domestic sales plunged by PVC prevailing prices last year 17.9 per cent, while foreign were 1 per cent below the 1979 sales fell hy 4.7 per cent. Hüls is suffering mostly in

commodity plastics, especially PVC (polyvinyl chloride), and Around 1,500 workers in-volved in PVC and polystyrene margins. production at the company's Hüls

Marl plant are being put on falling volume sales.

CHEMISCHE Werke Hills, the short-time work for two months for four months until the end of November.

Overall, Hüls is aiming to reduce its workforce by around 2,200 by the end of 1984-800 jobs have already gone—chiefly financial performance for more through early retirement, volunthan 10 years in 1981, only tary redundancy and a stop on just avoiding the drop into loss new recruiting. At the end of with an after-tax profit of 1981 the company bad a work-

capacity utilisation was down to

The costs of manufacturing several products have risen much faster than selling prices in the last 18 months and for level. Energy costs account for 55 per cent of the manufactur-ing costs of PVC, and petro-chemicals feedstock prices rose by 30-70 per cent last year biting deeply into Hüls profit

Hitls is still being bit by

### New structure for Italian power equipment industry

THE TWO leading companies in cial assistance to the industry Italian power station equipment, which has been weakened by Ansaldo and Franco Tosi, have government delays in going

Ansaldo, which is part of the export markets and to help those under the leadership of the Italian electro-mechanical com- Genoa-based, Ansaldo. Italian electro-mechanical companies which are in difficulties,

The proposals appear likely

agreed in principle on a new ahead with new power station structure for the troubled orders. Only one large plant has been started since 1975.

Under the proposals a con state owned IRI-Finmeccanica sortium of public and private group, and Franco Tosi, which sector electro-mechanical conis a private sector concern, bave cerns called GIE, which bas the put to the Government proposals capacity to deliver complete both to try to streogthen the plants in export markets, will position of Italian companies in be dissolved and reconstituted

At the same time a second company, also dominated by to be accepted and should lead Ansaido, would be set up to to the Government giving finan- belp the private sector concerns

### Hapag climbs out of the red

By Our Frankfurt Staff

HAPAG-LLOYD, the West German shipping and travel company, achieved a significant recovery last year, producing a group after-tax profit of DN 13.2m (\$5.3m) compared with a loss of DM 31.5m in 1980—although it is still deeply dissatisfied with its financial perform-

The concern was belped by the strength of the dellar against the D-mark as well as by a marked improvement in the performance of its cargo liner services, which added DM 56m more to pre-tax profits than in 1980.

Last year's recovery came after the company's worst 12 months in the post-war period. The parent company remained in deficit in 1981 with an after-tax loss of DM 7.5m compared with a loss of DM 21 6m in 1980 loss of DM 21.6m in 1980.

Group turnover jumped by 24 per cent to DM 4.3bn last year, chiefly as a result of the strength of the dollar and through the inclusion for the first full year of the cargo route to the Middle East and the Indian Ocean, which was ken over from the bankrupt DDG Hansa group September 1980.

Hapag-Lloyd remains financially weak with shareholders funds accounting for only 10.5 per cent of total liabilities compared with 10.7 per cent

The company continued to suffer from the "desolate" state of the world tanker market and again had to make provisions against the sizeable risks in this sector.

Of total sales last year of DM 4.4bn, about DM 3bn was derived from eargo liner ser-vices, DM 189m came from barbour and coastal services, DM 123m from ship building and ship repair, DM 714m from tourism, including the Hapag-Lloyd airline, and DM 271m from hanlage.

The company's haulage activities continued to run up considerable losses despite measures to streamline the operations, and losses of DM 5.2m were also accumnlated by the shipyard activities. Book profits from the planned sale of aircraft belped to keep the airline narrowly out of deficit.

The main bope for further improving profits in 1982, said the company, lay in efforts to cut costs and increase produc-tivity. With world trade stagnating or in recession there was little hope of increasing sales revenues.

### Orders decline at Hochtief

By Our Financial Staff

ORDER books at Hochtief, the West German construc-tion group, had fallen to DM 4.1bn (\$1.64bn) at the end of June, from DM 5.3hn at end-June 1981 and DM 4.4hn at the end of 1981.

Herr Enno Vocke, managherr Emo Vocke, managing board chairman, told the annual meeting that foreign construction output totalled DM 1.1hn after DM 2.85bn in the whole of 1981. Foreign orders totalled DM 2.1bn, against DM 2.45bn at end 1981.

Domestic building completed fell by 12 per cent in the six months to DM 1.12bn, following lower income orders in 1981. But demestic Incoming orders revived in the half year to stand at DM 1.3bn at end-June. However, no end is in sight to the domsetic building crisis which is being made worse by public sector. Building crisis Western Building crisis. sector building cuts, Herr Vocke said.

Banque Keyser Ullmann S.A.

Banque de Dépois et de Gestion Banque de Participations et de Placements S.A. Dai-Ichi Kangyo Benk (Schweiz) AG

Nederlandsche Middenstandsbank (Suisse) S.A.

Bank Cantrade AG Bank Heussar & Cie AG Banque Scandinave en Suissa

- Groupe Société Générale

Hottinger & Cie Banca Unione di Credito

# Elf transfers \$200m to service takeover loans

ELF AQUITAINE, the French state-controlled oil company, faces a cash drain of about \$200m this year to pay interest charges on bank loans arranged last year to finance its takeover of Texasgulf, the U.S. energy and mining concern.

The need to transfer funds abroad to finance the takeover carried out a year ago to build up Elf's transatiantic energy business—carries the risk of embarrassing the French Government, which has a two-thirds

which has been hit by weak phosphate sales—a major component of its raw materials

because of worse-than-expected financial results at Texasguif.

Concerned with protecting the fer to foreign banks about franc, the French Finance FFr 1.4bn (\$202m) during the Ministry originally asked that course of this year in the form the deal should be carried out of interest charges oo dollar without sparking off capital out- loans. The original plan was flows. But, according to reports for the debt servicing to be in Paris, the Government has covered from Texasgulfs been forced to give reluctant authorisation to the transfers profits.

Elf has already been involved in controversy with the state this month over the Governmeot plans to limit increases in domestic petrol prices this Elf is now expected to trans- summer.

# ABN expects rise in bad debts

BY OUR FINANCIAL STAFF

ALGEMENE Bank Nederland, one of the big three Dutch commercial banks, expects first half net profit to be little changed from the Fl 196.3m (\$71.4m) of the same 1981 period, despite a "major rise"

**Douwe Egberts** sees hard year By Walter Ellis in Amsterdam

DOUWE EGBERTS, the leading Dutch coffee trader, expects extremely difficult trading conditions over the next 12 months, with net profits falling as low as F1 125m (\$45.9m). In the 12 months to the end of June, DE made a net profit of FI 202m, with 51 per cent of sales generated overseas.

It forecasts a bigber proportion of foreign business but worldwide demand will con-tinue to fall,

DE is part of the Consolidated Foods of the U.S. Two months ago, DE sold its U.S. subsidiary, Superior Foods, to the parent company and opened a new, aggressive phase in its marketing in the Netherlands by announcing that it intended to undercut the coffee prices of its Dutch competitors.

It is too early yet to say what effect the price war bas bad. DE already held close to 60 per cent of the domestic market for. coffee and could only expect real gains at the expense of Van Nelle, which last year made a profit of just over Fl 30m.

bond issue, the bank says additions to its general risk provisions will again be substantial. Fl 309m. These rose to F1 495m in 1981 from F1 300m in 1980.

The bank's plaoned bond rom Fl 300m in 1980.

Despite the need to provide coupon of 111 per cent. The period, despite a "major rise" substantially greater cover hond will be priced next Tuesin general risk provisions.

In a prospectus for a FI 100m aged to improve its earnings be in two days later.

# **PUNJAB** NATIONAL **BANK**

Hereby announces

THAT WITH EFFECT FROM 16th JULY 1982

THEIR BASE RATE WILL BE

12½ PER CENT PER ANNUM TILL FURTHER REVIEW

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announces

that the Geneva Offices of

**Continental Illinois Investment Advisory Corporation** 

have been upgraded to a full branch effective July, 1982

Continental Illinois Bank (Switzerland) 62 Rue de Rhone Geneva Telephone: 022 21 44 22

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**Emile Marshi** Manager

Adas Goluchowski Assistant Manager



**CONTINENTAL BANK** 

Continental Illinois National Bank and Trust Company of Chicago

This announcement appears as a matter of record only, June 1982

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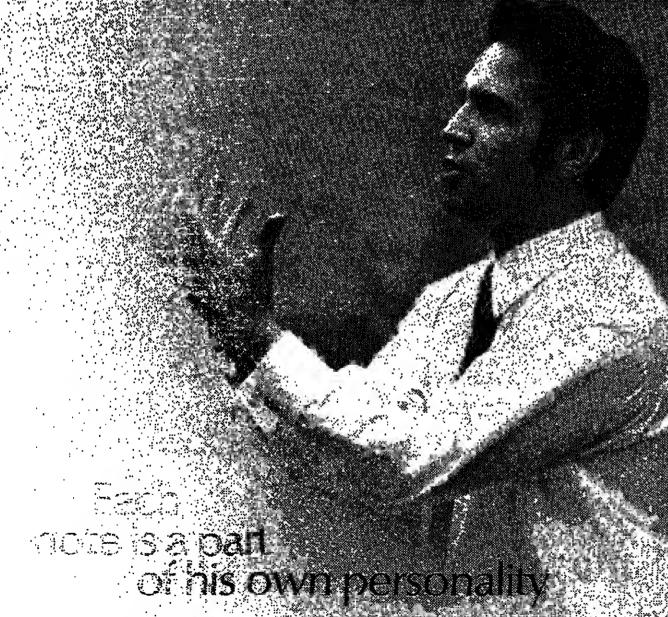
LONRHO PUBLIC LIMITED COMPANY, LONDON, ENGLAND

Swiss Francs 80.000.000.-7 1/2 per cent. Bonds due 1992 KREDIETBANK (SUISSE) S.A.

Armo Bank und Finanz Armand von Ernst & Cie AG lanco di Roma per la Svizzera

Nordfinanz-Bank Zürich Lloyds Bank International Ltd.

CIAL, Crédit Industriel d'Alsace at de Lorraine Fuji Bank (Schweiz) AG Jewerbebank Baden Hypothekar- und Handelsbank Winterthur Maerki, Baumann & Co. AG



However good the crisemble may be turned at the paint only it is the conclusion who gives the performance its own special characters.

isst as in the world of technology. Here, too, the great performances carry the signatures of their designers and constructors, and many of them bear the signature Mannesmann, The China

Petrochemical plants and sea-water desalination units, works for metallurgical and ing-mill technology, mechanical handling systems for distribution and waremousing automation systems for processing and power engineering as well as highseeed printers for data systems, which print up to 810 characters per second in four colours are examples of our performances in this field.

And, of course, complete pipelines that bring oil and gas from remote. sources to the centres of consumption. Designed and constructed by Mannesmann, whether with our own or external know-how, always with creativity and a strong personal interest that gives the performance an unmistakable signature

Ask the man from (

mces

riand

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:howski

# Heavy research spending weighs on Honda results

BY RICHARD C. HANSON IN TOKYO

HONDA MOTOR Company the per cent, respectively, in the duced late last year. Honda

its first quartor, ended May 31.

The company, however, An agreement to restrain vision). A steep rise in attributed most of the decline exports to the U.S. market, interest costs and a drop in to a steep rise in its spending sales period.

to a record quarterly high of Y540.7bn. Domestic sales y540.76n. Domestic sales jumped 28 per cent, while exports (70 per cent of the total) gained only 7.5 per cent. Honda's overseas unit sales of motorcycles and care

Bahrain awards

more banking

By Mary Frings in Bahrain

THE BAHRAIN Monetary Agency has approved 11 appli-

cations for banking licences from among nearly 40 applications. Artoc Bank and Trust,

a mainly Arab-owned institu-

(Middle East) EC, a Bahrain-

registered subsidiary of the Japanese securities house, was

ing Company, European American Bank and Trust Company,

Marine Midland Bank, Banco do

Commercia e Industria de Sao Paula (COMIND), International Commercial Bank of China (Taiwan), Bank Negara Indo-nesia, and Hokkaido Takushoku

Bank.
The number of licences held

by Japanese banks and securi-

ties houses in Bahrain now

are for representative offices.

There were no previous repre-sentatives of Taiwan or

Consideration of licence appli-

licences

Japanese car and motorcycle first quarter compared with a sold 34,000 City units. group, has reported a 33 per year earlier. Shipments were The steep drop cent drop in consolidated not burt by a drop in demand in income reported for the profit to Y17.178bn (\$67.1m) in parts of Southeast Asia, Iran quarter reflected a Y7.1bn

to a steep rise in its spending announced in June last year, on research and development and to seasonally high inventory costs in advance of a peak cars in the U.S. in November ales period.

Sales advanced 13 per cent 70,000 units in 1983, or about one-fifth of its current sales volume in America.

Domestic car sales rose 21
per cent to 94,000 units (compared with 181,000 cars sold overseas). This was partially the result of brisk sales of the world's largest manufacturer of motorcycles and cars the result of brisk sales of the actually fell 20 per cent and 3 City, a 1,200cc model, intro-

Australia tops rush for freed yen loans

A LONG-TERM loan fo Y20hn (\$80m) to Australia, the largest single yen loan to a sovereign borrower since Japanese rules were relaxed in May, has been completed with 40 banks and financial institutions participating, it is undorstood.

This brings the total estimate for sovereign calls on hte Japanese yen long-term loan market to a record Y192bn (\$750m) for the April-September half year. An unprecedented scramble to arrange syndications occurred after the Ministry of Finance opened the market to all types of borrowers on May 13. It is believed that banks have now used up virtually all of their loan pregorammes for the balf year.

Under such circumstances, bankers had expressed con-cern over whether the market could absorb smoothly a Ioan borrowing (Australia initially aimed at raising ¥30bn). The Long-Term Credit Bank of Japan led the Australian syndication.

Meanwhile, the ceremony was held yesterday for one of the largest of the other yen loans to be marketed this half-year. Nationale des Antoroutes (CNA), a French public financial agency, has borrowed Y12bn for 10 years.

France ranks as the top national borrower for the half-year, with four deals totalling Y37bn. CNA is the largest borrower of the four. Both the Australian and CNA loans carry the terms specified by the authorities for fixed rate long term yen loans of 0.2 per cent over the Japanese long term prime rate (curently 8.4 per cent). The CNA loan includes a fiveyear grace period.

The rusb of yen leading means that total long-term yen loans during this balf of the fiscal year will probably exceed slightly the Y350bn lent in the previous six months, before sovereign borrowers were allowed into the market.

The Ministry of Finance, however, has already indi-cated that long-term yen lending in the six months beginning October may be down from the current half's total. This is partly because demand for credit from the government itself will be up sharply. The authorities are also cautious about the impact of such capital outflows on the yen's exchange rate. Ministry has abandoned its previous practice of setting an overall ceiling on yen lend-ing. Instead, the amount of lending is controlled by the monitoring each month of the individual "loan programmes"

### **Toyota Motor forecasts** growth of world markets

TOKYO — Toyota Motor Corporation hopes to sell 2m vehicles a year in Japan by 1985 compared to 1.5m last year, Mr Shoichiro Toyoda, president,

523 G. Sales in the Japanese market, already the world's second largest after the U.S., are over 5m vehicles annually and will be 30 per cent bigger by the

tion registered in the Bahamas in 1877, was the only applicant to be granted a full Offshore Banking Licence (OBU). Nomura Investment Banking 1990s. . Worldwide demand will also increase 30 per cent by then, with expansion particularly noteworthy in the Middle East, Africa and Central and South America, he added. Over the next few years granted an Investment Banking

Licence (IBL).
Manufacturers Hanover Trust Toyota will pay greater atten-tion to markets in Asia, Africa, Oceania and Central and South Company, which already has an OBU in Bahrain, obtained a licence to open a regional office. Other representative office licences went to Deutsche America. It will also expand overseas facilities, especially knock-down production opera-Bank, Yasuda Trust and Bank-

Mr Toyoda hoped that talks with General Motors of the U.S. on joint-production of a Toyota-designed small car in the U.S. would be successful soon, but he gave no details on the current state of negotiations.

The steep drop in not

equity income from unconsolidated subsidiaries were recorded.

Honda cites the expenses

associated with an "aggressive" schedule for introducing new

products this year in accounting for the decline in its earnings. About 30 new motorcycle

of motorcyles.

Toyota is looking at ways to employ afternate energy sources such as hydrogen and battery driven engines.

Meanwhile, he criticised pro-posed legislation in the U.S. to ensure vehicles sold there have a percentage of locally made

The legislation could have the "effect of not only restrict. ing competition and running contrary to the best interests of American customers, but in the long-term being disadvantageous to the U.S. economy."

### \$300m credit planned by Gulf Petrochemical

stands at 21, but 19 of them (GIB) has been awarded the mandate for a \$300m credit for ject in Bahrain. The margin is Gulf Petrochemical Industries believed to be 1 per cent over the Bahrain inter-bank offered between Bahrain. Kuwait and Sandi Arabia. cations from newly formed banks and investment com-

corp). Kuwait Foreign Trading this year. Many of those passed

A CONSORTIUM of Arab banks Dr Tawfeeq Almoayed, chairand investment companies led man of GPIC said the terms for buy Gulf International Bank a proposed five-year loan, with a two-year grace period, were the lowest achieved for a pro

banks and investment companies wishing to offer shares
to the public is subject to a 12month moratorium imposed by
the BMA at the beginning of

Reclammation from the sea of a 600,000 sq metre site for awards are believed to be in Company (KFTCIC) and the GPIC's ammonia and methanol this category.

National Bank of Bahrain. complex has been completed and topographical surveys and soil analyses are now in pro-gress. The plant is due for com-pletion by the end of 1984. The -old ways of logorimos upon getti of Italy.

**Base Rate Change** 

BANK OF

**BARODA** 

Bank of Baroda announce that, for balances

in their books on and after 16th July. 1982

and until further notice their Base Rate for

lending is 12% per annum. The deposit rate

on all monies subject to seven days' notice of

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Banco da Bilbao S.A. Banca Nazionala dal Lavoro **BancOhio National Bank** Banque Française du Commerce Exterieur Crédit Agricole Crédit Industriel et Commercial The Long-Term Credit Bank of Japan, Limited National City Bank, Cleveland Ohio Pittsburgh National Bank Paris Branch RepublicBank Dallas, N.A. The Sanwa Bank, Limited Scandinavian Bank Limited Seattle-First National Bank Tha Tokai Bank, Limited

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Allied Irish Banks Limited Westdeutsche Landesbank Girozentrale The Deiwa Bank, Limited The Sumitomo Trust and Banking Co., Ltd. The Taiyo Kobe Bank, Limited Banque de l'Union Européenna

The Chase Manhattan Bank, N.A. Manufacturers Hanover Trust Company Banque Indosuez Citibank, N.A. Bank of America NT & SA Bank of Montreal Commerzbank International S.A. Continental Illinois National Bank and Trust Company of Chicago Crédit Lyonnais Crocker National Bank The Dai-Ichi Kangyo Bank, Limited The Fuji Bank, Limited The Mitsubishi Bank, Limited London Branch/New York Branch Morgan Guaranty Trust Company of New York International Westminster Bank PLC Nederlandsche Middenstandsbank N.V. New York Branch The Nippon Credit Bank, Ltd. Republic National Bank of New York Security Pacific Bank Banca Nazionale del Layoro Paris Branch Banco de Bilbao S.A. BancOhio National Bank

Banque Française du Commerce Exterieur New York Branch Crédit Agricole Crédit Industriel et Commercial The Long-Term Credit Bank of Japan, Limited National City Bank, Cleveland Ohio Pittsburgh National Bank Paris Branch RepublicBank Dallas, N.A. The Sanwa Bank, Limited Scandinavian Bank Limited The Tokai Bank, Limited Allied Irish Banks Limited Westdeutsche Landesbank Girozentrale The Sumitomo Trust and Banking Co., Ltd. The Daiwa Bank, Limited The Taivo Kobe Bank, Limited

Banque de l'Union Européenne New York Branch First Pennsylvania Bank N.A. Manufacturers National Bank of Detroit Banco Portugues do Atlantico Midlantic National Bank The Royal Bank of Scotland plc The Riggs National Bank of Washington D.C. London Branch State Bank of India

# Moët-Hennessy

The Annual General Meeting of shareholders held in Paris on 24th June 1982 and chaired by Mr. Frederic Chandon de Briailles approved the consolidated accounts and balance sheet for the year ended 31st December 1981.

A dividend of FF 16 per share was declared for the year, together with a tax credit of FF 8, so that the total dividend amounts to FF 24.

An interim dividend of FF 7 per share was paid on 1st February 1982. The balance of FF 9 per share will be paid on or about 5th July 1982 against Coupon No. 34.

The Annual General Meeting also re-appointed as directors for six years Mr. Kilian Hennessy and Mr. Jacques Mercier.

Mr. Frederic Chandon de Briailles informed the meeting that he intended to resign as Chairman and asked the Board to consider appointing Mr. Alain Chevalier, at present Vice-Chairman and Managing Director, in his stead.

In a meeting held after the AGM, the Board of Directors expressed regrets at Mr. Frederic Chandon de Briailles' decision and thanked him for his leadership of the Group over the past six years. The Board then appointed Mr. Alain Chevalier as Chairman of Moet-Hennessy.

The Board also re-appointed Mr. Alain de Pracomtal as Managing Director.

Lastly, the Board appointed Mr. Kilian Hennessy as President and Mr. Frederic Chandon de Briailles and Mr Alain de Pracomtal as Vice-Chairmen.

The Annual Report, which is available in both French and English, can be obtained from the Company's registered office at 30 Avenue Hoche 75008 Paris.

Notice to the Holders of ORIENT LEASING (CARIBBEAN) N.Y.

U.S. \$20,000,000 814% Guaranteed Notes Due 1983

withdrawal is 9% per annum.

Effective August-2, 1982, the specified office of The Industrial Bank of Japan Trust-Company as Paying Agent for the above-described issue will be

245 Park Avenue New York, N.Y. 10167 U.S.A. July 16, 1982

Notice to the Holders of MITSUBISHI GAS CHEMICAL COMPANY, INC.

U.S. \$20,000,000 6% Convertible Bonds Due 1992

Effective August 2, 1982, the specified office of The Industrial Bank of Japan Trust Company as Principal Paying Agent for the above described in the specific paying 245 Park Avenue New York, N.Y. 10167 U.S.A.

BUILDING **SOCIETY RATES** 

Every Saturday the

Financial Times publishes a table giving dotails of **Building Society Rates** on offer to the public For further details please ring: 01-248 8000

Ext. 3606

Notice to the Holders of DENKI KAGAKU KOGO KABUSHIKI KAISHA U.S. \$20,000,000 7¾ % Guaranteed Notes Due 1982

July 16, 1982

Effective August 2, 1982, the specified office of The Industrial Bank of Japan Trust Company as Principal Paying Agent for the above-described issue will be

245 Park Avenue New York, N.Y. 19167 U.S.A. July 16, 1982

All these Bonds have been sold. This announcement appears as a matter of record only.

NEWISSUE

June 1, 1982



# HYDRO-QUÉBEC Montréal, Canada

ECU 50.000,000

13½ per cent. Bonds due 1989, Series "EV" Unconditionally guaranteed by the PROVINCE DE QUÉBEC

> Kredietbank International Group Société Générale de Banque S.A.

Algemene Bank Nederland N.V. Amro International Limited Bank Brussel Lambert N.V. Banque de l'Indochine et de Suez Banque Internationale à Luxembourg S.A. Crédit Commercial de France Banque Nationale de Paris Crédit Lyonnais Nomura International Limited Salomon Brothers International S.G. Warburg & Co. Ltd.

Bank Gutzwiller, Kurz, Bungener (Overseas) Bank/Banque Ippa S.A. Bank Mees & Hope NV Banca Commerciale Italiana Bankverein Bremen AG Banque Générale du Luxembourg S.A. Banque de Paris et des Pays-Bas Banque de Paris et des Pays Bas Banque de Paris et des Pays-Bas Belgique S.A. Banque de l'Union Européenne Caisse d'Epargne de l'État Creditanstalt-Bankverein Continental Bank S.A. Chase Manhattan Crédit Général Crédit Industriel d'Alsace et de Lorraine Crédit Communal de Belgique/Gen ekrediet van België Dominion Securities Ames Daiwa Europe Credit Suisse First Boston **European Banking Company** Irish Intercontinental Bank Industriebank von Japan (Dentschland) Istituto Bancario San Paolo di Torino Kredietbank S.A. Luxembourgeoise Kredietbank (Suisse) S.A. Kleinwort, Benson KB Luxembourg (Asia) Ltd. Lévesque, Bezubien Inc. Lehman Brothers Kuhn Loeb International, Inc. Evan Lanschot Bankiers N.V. Samuel Montagu & Co. Nederlandsche Middenstandsbank N.V. Nederlandse Crediethank nv Merrill Lynch International & Co. The Nikko Securities Co., (Europe) Ltd. Nippon European Bank S.A. Orion Royal Bank Société Générale Société Générale Alsacienne de Banque Swiss Bank Corporation International Westdeutsche Landesbank Girozentrale Wood Gundy

### Banco de Chile US \$20,000,000

Bance de Chlic

Negotiable Floating Rate Non-London Certificates of Deposit due 1983

For the six months 19th July, 1982 to 19th January, 1983 In accordance with the provisions of the Certificates, notice is hereby given that the rate of interest has been fixed at 15% per cent, per annum, and that the interest payable on the relevant interest payment date, 19th January, 1983 against each Certificate will be US \$39,930.56.

Bank of America International Limited

NEW YORK	: July   July Steck   14   15	July   July 3look 14 13	July July Ju	July TET TET	$\sim$ 1		
Stock 14 15  ACF Industries 30 l. : 31	Columbia Gas 504 503c Combined Int 1979 123c Combustn. Eng., 245c 245c	Gt. Att. Pac. Tea. 736 711 Ot. Basins Pet 156 154 Gt Nthn. Na kogas; 624 624	Stock   14   13   Stock   14   15     Schlumberger 371   371	3651 Wall	St edges	up at m	idday
AMF 15 1514 ARA 2714 2715 ASA 3015 6014 AVK Corp. 1615 1714	Gmwiin, Edison. 2112   9112   Comm. Satelite 6215   5252	Gt. West Finanal. 1262 1239 Greyhound 2315 13 Grumman 3654 3653 Ou f & Weston 12 1218	Minnsetta MM   55%   551g   Seagen	45	cher at The Metal Index was up	13.7 SS7.50 and Hong Leong Finance	e and the Ali Shares Index fall to 190.82 from 192.50.
Abbot Labs	Comp. Sciencs 1274   1314 Conc Mills 9774   9713	Guif Oil 261a · 251a	Mehesco	263, ip re-enter the market 2612 crystic morning perform	after an 1,755.0. naoce. Among gaining Metal and	Gold trial/Commercial Index fell 4.1	J. Gockerik and Tessenderion rose 3 per cent and Arbed rose 2 per
Aeina Life & Gas 3577 1 3417 1 Ahmanson H.F.J 611 912 1 Air Prod & Chem 3134 1 507a	Cons Edison 35% 231g Cons Edison 361g 35% Cons. Foods 361g 35% Cons Frsight 694 385s	Hall (FB) 263, 291, Halliburton 951, 243, Hammermill Ppr 221, 1993, Handleman   165 131,	Margan IJPI	961 Average was up about 175 mid-session at around	t 25 by CS131, Placer Developments d 830.86 CS14, Gibraltar Mines 1 to	CSSI, ties and second trading section and were also lower where traded in	n fina, Asturienne, Mosane and
Akzene	Con. Nat. Gas 2312   9375   Conmucr Power 1776   1758   Cont. Air Lines 412   458	Henna Mining 1236   1856   Harcourt Brace 1574   14   Herris Bancp 2573   2656   Harris Corp 2512   2618	Murhy Oil 193 <sub>4</sub> 18 Nebisce Brends 543 <sub>8</sub> 343 <sub>8</sub> Naloo Chem 203 <sub>4</sub> 911 <sub>4</sub> 3implieity Pett 73	earlier. Advances led	Declines Campbell Bed Lake 1 to Confessor Class "A" was	114. line with the general trend. up 1 Sciangor Properties fell 1: ald it cents to \$83.96, and Hon;	UCB fell 2 per cent.  In Foreiga stocks, Guld mines, UK and Germans were lower,
AlcanAluminium 19 <sup>1</sup> 3   19 <sup>1</sup> 9   Alce Standerd 20 <sup>1</sup> 8   20 <sup>1</sup> 5   Alexander & Al 26 <sup>1</sup> 6   96	Contl. Corp	Hersco	Nst. can 1614   1614   Skylins 191 Het Detreit 2012   2018   Smith inti   211	The NYSE All Comm 2156 Stood 2t about 63.43	on Index would ley off 2,100 wo	rkers Leong Industries 20 to SS5.55. cause The Straits Times Index shee	Dutch and Canadians little i changed U.S. and French mixed Petrofina rose, but American
Alcoheny In1 22 221n Allied Corp 307g 3014 Allied Steras 2712 273a Allies Chelmers 1119 117g Alpha Pertd 1212 1918	· · · · · · · · · · · · · · · · · · ·	Narcules	Nat. Olst. Ghem 90s 205 2mith Kline Beck 637 Nat. Cypsum 18 191s Senesta Intil	Analyste esid the MI of the mesey supply w	measure products.	Amsterdam Shares were mixed in fairly	Petrofica and Canadian Petrofica fell.
Alcce	Cooper Inds 245g : 247g Coors Adelph 101g : 107g Copperwold 153g : 157g	Hilton Notels 31% 61	Not. Service Ind. 241s 241s Sth. Cal. Edison. 311 Het. Standsrd 81s 81s Southern Co 13 Note The Standsrd 145s 141s Sthn. Nat. Res 291 Note The Standsrd 161s 165s Sthn. H. Eng. Tsl. 423	could prevent the Reserve from easing it	Federal Prices gaload ground, is mone interest stimulated by the	with quiet trading. over- Banks were the weakes	Diam Prices closed broadly higher
4max	Corning Olass 45 4434 Gerroon Black 1914 1914 Gox 5ros::cast'o: 2654 8218	Heliday (nns 2714   2675 Holly Sugar 6236   3214	HCHB	i 211s figures are due to he 241s today.	released the yen's recovery against dollar.	tha 277 as the market reacted negatively to news that it expected	hunting, reflectiog increased investor confidence following Tuesday's election of a new
Am. Brends	Crocker Nzt. 241s 241s Crown Cork 2412 2473 Crown Zell 171s 1934 Cummins Eng 2214 223s	Homestake 223 235 Neneywell 62 684 Hooyer 10 10	NY Stais E & G. 1754 1765 Spring Wills 243 NY Times 403 413 Square II. 245 Nawment Mining. 3175 335 Square II. 371 Nieg. Mehawk 1354 1354 STD Srands Paint: 245	3718 better performers, with	Smith recauped Wednesday's let to \$651 close at 7,197.77, up 42.7	s to little change from the 196.3m 7. on guilders to first-half 1981 despite	leader to head Spain's divided Centrist Party, dealers said. The Madrid Index rose 1.61
Am. Elect. Powr. 1975 1675 Am. Exgress 3214 1 3954 Am. Gen. Insnee. 3314 : 3314	Curtiss-Wright 5678 5718 Damon 614 638 Dana 25 2516	Hermel Gee.V 125g : 20 Hospital Corp 391g   397g Beusehold Inti 12 - 1214 Heusehon Inde 125g	NICOR Inc	777	The Tokyo SE Index added to 531.97.  Supplies Many Rice Chips firms	1.77 provision.  ABN's fall triggered substant in tight selling of other Bank shares.	points to close at 88.78. Banks showed particularly strong gains, with leaders advancing between
AM, BOSO, MUDDY: 404, 405, 1	Dayten-Hudson 321s 323s	Nudson Bay Mng. 121s : 121s Hughes Tool 177s   185s Humans 257s   261s	Nerfpik Southern 447s 49 Std Bil Bhlo 3Planth Am. Coai 26 2414 Stanley Wks 1414 Stanley Wks 1414 Stanley Wks 1844 Stanley Wks	1334 Middle East boosted I	Domestic Heitals and Oils rose sharp the Rich-	rrous and NMB fell 6 to 112, while by in AMRO was 1.90 lower 2t 45.60	6 end 8 percentage points and Central rising 10 points
Am. Petting 55 55 Am. Quasar Pet 64; 61;	Benny's	Muster Ott   L.A A.	Nerthgals Exp. 518 319 61cvens (J.P.i	281 Ohip ! in 830 and U	nion Oil Some high-priced Blue of popular amoog foreign he cased, but low-priced Den	Chips FAITIS Dyers Shares were mixed with an Destic easier hias in very quiet trading	and Iran pushed Metal prices
Am. 31anderd 217g   661g Am. Steres 45   443g Am. Tel. & Tel 521g   53 Amatekinc 263g   263g	Diamend Inti 36   357g   Riamend Shank 127s   167s	U int   1256   1256   1681	NWastBancerp     17%     18       Nwast Inds     505c     601c       Nwast Mutual     23 g     87g       Nwast Mutual     21c     87g       Nwast Steel W     154c     19       Nerton     241d     285c       Nerton Simon     161d     124       TRW     27d       TRW     27d       TRW     27d       TRW     27d       TRW     27d       TRW     27d	175 I gain following the	nues to Hong Kong	reaction to recent firm sessions dealers said.	higher giving much needed direction after the uniospired
Ametar	Rigital Equip 52 2 62 52 6	mp Corp Amer 514   514   514   618	Occidental Pet 171s 171s Tampax	365 Tuesday.  Raythepn shed 1 to	to close higher, mainly be \$381 in pf continued speculative high	cause from the market taking at	The All Ordinaries Index closed 1.2 points up at 453.7.
Archer Daniels 1371 , 1371   Armco 161g 1834	Dome Mines 55g   63g   6	Intel	Ogden         12         18*           Egilvy & Mrth         32         313*           Inle Edison         121*         165*         Tandy         22*           Illn         18*         19*         Teledyne         27*           Imark         14*         14*         Tsktronix         65           Eneck         68*         26*         Tenneco         25*	heavy trading after r	second- interest rates, brokers said. Prices started at about We	dnes Germany	after falling about two points in the morning. Oil and Gaz stocks firmed on the Midle East news but Golds
Armstrong GK 1514 1554 Asamere Bil 714 739 Asarco 2238 2214	Br. Pepper	8M 551g : 645g		19 I Value Index rose 1.20	to 249.71 pu2bed most shares here to the late puzze taking.	rofit orders dried up and some foreign luvestors turned sellers in a thin	failed to respond.
Asid. D. Coods 53 323 Atlantic Rich 3778 33	Bun & Srad	nti. Hervester 534   379	Owens-lilineis 2215 6212 Texas Gas Trn 2338 PNN Croup	Canada	The Hang Seng Index c up 13.95 points to 1.313.37. Chips were generally h	Blue The Commerciank Index edged sher higher to 684.60 from 684 the	Gold shares recovered partially in moderate trading, as the
Avnet 4054 5918 Avon Prod 2914 93	Easco	inti.Tel & Tel 2314 2319 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Pabst Srewing 2012 9012 Texas Utilities 2213 Pac. Gas & Elect. 2573 24 Pac. Lighting 244 9554 Pac. Lumber 1712 1713 Thomas Betts 48 Tidewater 1914	small gain as the recent in commodity prices com later share values.	tiqued to developed on a selective has	is. support following the Green- ment decision on Wednesday to	\$350, but still closed slightly easier against Wednesday's close.
6akar In11 213, 2038	Eastern Gas & F. 1434 1478 Eastman Kodak. 7619 17614 Eaton 9918 25 Echlin Mfg 1334 1319	s ffn-Pilot 2454   2614	Paim Seach	98 was Up four ppints at 1, 4014 volume of 2,15m shares.	395.5 nn Prices closed slightly lowed Advances lack of buying support lo	quiet Rescole -	Golds with Angles down 20 st R1,090 after R1,075, but in Diampnds, De Beers fell 13 st
Sankers Tel N.Y. 275a 2773 Barry Wng hl 135a 14	Elect, Memeries. 44 44 El Pase	lehnthen Logen. 14% 14% 14% 16v Mnf 21% 21% 31%	Perker Brilling 104   1686   Parker Hanfn 1586   1686   Pasbody Intl   558   519   Panney (1687 ) 2584   2984   Timken	led declines by 169 tp 10  Closing prices for  America were nat g	North S\$10.20, Fraser and Neave	its to Sharez were mixed and foreigns 10 to lower in moderate trading. 5 to The Industrial Index stopd at	R445. Piztinums shed 5 ceots while other Minings and Industrials closed narrowly
Saxt Trav Lab. 3214 3236 Gealrice Foods 1814 1256 Bokar Inda 55 536	Emhart 36 4 3634 Engelherd Corp., 1938 1256		Peoples Energy. 93   83   Total Pst	1314 for this edition.	SSS.15. Development Bank  BELGIUM (continued)   HOLLA	to to 93.24 against 93.08 on Wednesday.  ND AUSTRALIA	mixed.  JAPAN (continued)
2eli industries 161a   151a 2endix 421a   421a Geneficial 161a   17	Enscreh	Caufman 8rd 714 714 Caufman 8rd 214 714 Cay Corp 212 814 Cellogg 2434 641g	Perkin Elmer         121         191         Transamerica         181           Petrie Stores         213         215         Transway         201           Petrolanc         131         156         Trens World         911           Pizer         57         561         Trevsillars         905	1819 205g 211 204 Stock July July 14 13	July 15 Price + el Jul	y 19 Price + ar July 15 Aug.:  ANZ Group 3,50	July 15 Yen -
64th Slack 1978 1619 8ig Theolinds 1834 1938 Slack & Backer 1511 1515	Ethyl	Cerr-Magse 31 12 3054 Gdde 56 14 1 30 Clmberly-Clark . 60 92 is	Phelips Bodge	- AMCA Intl	Soc. Gen. Bang 9,450 +30 AKZO	130 Acrow Aust 130 Acrow Aust 130 Acrow Aust 129 24.9 -0.1 Assoc. Pulp Pep 145 Audimen 0.10	Kumgaal
6 ue 6ell	FMG	Coehler	Phillips Pet	195 Asbestos 1658 103	Solina	45.81.7 Aust. Cons. Ind. 1.53 45.81.7 Aust. Guarant : 2.19 Gert 1605 Aust. Net. Inds. 9.45 Western 52.50.6 Aust. Paper 1.67	-0.02 Marubent 280
Sorden	Fed6ral-Magui 1934 95 Fed. Nat. Mort 105q 163a Fed. Paper Brd 1214 19 Fed. Resources 1	TV	Plessey	451   Basic Resources. 2.52   2.5   451 <sub>2</sub>   Bell Canada	VisiliaMont 9,400 +10 Suhrmar Caland H	Id e 92.1 +0.1 Blue Metal 1.49 154.8 +0.8 Bond Hidgs 0.98 123 -1 Boral 2.20	-0.05 M'bishi Sank
6rown Forman 8 325, 33 6rown Grp 561, 3312	Firestona 2612 2052 Firestona 1019 1114		Potiatch	98aa   8P Ganada   1334   13	Cist-Bro Hainakei DENMARK Haoogove	74.3 -0.1 Stambles inds. 1.88 69.4 +0.4 Bridge Oil 9.30 9.68	M'Dishi Ri East 420 -3 +0.86 MNI 175 +1 314 -4
3rowng Farris 291g 295g Brunswick 2014 205g		liv (Eli)	Pub. S. Indiana 931g 2314 Unit. Energy Ras. 2859 Puralstor	98 <sup>3</sup> 4 CIL Ina	July 16 Price + or lint Mulic	88.5 -1.2 CSR 2,69	+0.07 HGK Insulators 460 +5 +0.02 Hippon Banso
9urlinglen Hrthn: 421a 415a 9urndy 17 165a	1st City Bank Tex. 121g 125g 1st Interstala 243g 2414	ittan Inda	Questor     1978     1978     U2 Inds     91       Questor     1978     1978     US 9000     315       RCA     1746     1746     U3 5tsel     181       Ralson Puring     134     135     135     181	10   32   Can Packars	Baltica Skand 321 +1 Ned Gret CopHandelsbank 126 Hed Mid 1, Sukkerfab 331,4 +1,8 Hed Local Cop	Bank 99 —1. Cluff Oil (Aust) 0.40 Bank 112 —6 Do. Opts 0.21 d 118.4 —0.2 Cockburn Cemt. 1.28	Nippon Maat 367 -3 Hippon Oil 890 +14 Hippon Shirpon -768 -2
GBI Inds	1st Nat. Boston 225a 25 1st Ponn	ongs Orug Strs., 51½ 31 8 1.6 2 1.6	Ramada inns	24 Can Trisco	East Asiatip 87.2 +0.2 Ommere Foranda Berygg. 610 -1 Pakhoed Foraneda Damp. 396 -2 Philips	1.85 (Van. 91.8 -0.2 Comaloo	NIV Hasan Motor 776 -4
Campbell Tage 27 264	Florida Pwr & L., 325g 325g Ford Motor 235g 235g	Lubrizos	Redman Inds 1314 1274 Unjohn	5914	Jydske Bank	200.2 +1.2 Gan, Pro, Trust 1.47	-0.81 NYK 957 4
Can. Pacific 201 <sub>4</sub> 261 <sub>4</sub> Carllate Corp 32 215 <sub>4</sub>	Fruehauf 19 125g GAF 111g 1034		Rapublic Steal 17 167g   Virginia EP	Coseka Ros 5.30 : 3.4	Privatbanken 1928 Royal Du O Provinsbanken 11P Slavenbu	tch 85,8 ±0,5 Hookar	Olympus
Cartar Hawley 125 125 37 8 Galerpillar 37 8 37 8 52 12 12 12 12 12 12 12 12 12 12 12 12 12	61E 60FL	Micra Hanover 2678 974 Manvilla Corp 11 114 Manco 304 3018	Resort Intl A   901s   201s   Vulcan Matria   40.     Ravco IOSL   291s   277s   Walker INI Res   127s     Revere Copper   291s   277s   Wel-Mart Stores   271s     Revere Company   271s   271s     Raxnard   21s   23s   Warnaco   30     Warnaco   34s   23s   Warnaco   35s   35s     Raxnard   21s   25s   Warnaco   35s   35s     Raxnard   21s   25s   25s   25s   25s     Raxnard   21s   25s   25s   25s   25s     Raxnard   25s   25s   25s   25s     Raxnard   25s   25s	125g   Denison Mines 165g   197   255g   Dome Mines   912   93   30   Dome Petraluem 6,37   9.1	8 Superfos 95,4 Viking Re	k	Sanyo Elect
Centel	Gennet	Marriott	Raynaids RJ  491 445 Warnar-Lambt 91 821 821 821 821 821 821 821 821 821 82	9034 Dom Faundries 924 291 54 Com Stores 14 133 271s Comtar 171s 165	FRANCE	Maridian Oil 0.13 Monarch Pet 0.08 Myer Emp 1.30 Hat Bank 2.36	8hisleda 979 +9 Sony 3,250 -20 Stanley 349 -9
Gerlein tead . 11% 11% Cessna directafi 1614 1614 1614 Champ Hemagid 514 514 Champ int	Gen Cinema 4512 4578 Gan Dynamics 30% 5019 Oen Electric 62% 6759 Gen Foods 3077 2856	Massoy Fergin 154 118 Mass Multi-Corp. 1818 194	Robbins (AH) 127s   127s   Wells Fargo	161g Genstar	July	Naws	Taihal Oangyo
Charter Co 914 914 Chase Manhatt ni 3614 3614 Chemical NY 2714 2754	Can Motors 46% 46%	May Oapt. Strs 2935 2858	Railins	24   Hudson Bay Mng 1915   151	Emprunt 7% 1976   6,502   +157     CNE 8%	en 125,588 +476 Pancon 1.32 m'le 51,289 Pan Pacifia 0.10	
Chicaga Phoum 16 12 1	Constitution, 104 . Told	Meytag	Roper Corp	Nusky Oil	9IC 479 -3 Fiat Solution Printer Pr	#Festion 5,150 +400 Reckitt & Coln 1,79 1,694 +14 Santos 4,45 Sleigh (HC) 1,02	Tokia Marina 440
Citicarp 25 in 25 ii 1	Gegseurce 431a 431a	McConnell Doug 38 325g McGraw Edison 27 2634 McGraw Hill 4614 5114	Ryon Homes	261 <sub>2</sub> inter. Pipe	Gracefour 1,490 +10 Interest italcement GFAO 924 Olivetti	2,110 +6 Southland M'n's 0.27 td 92,790 -210 97,85 +0.21 Spargos Expel 0.16 9,165 +99 Thos. Natwide 1.50	Tokyu Corp
Clark Equipment 203a 20 s Clark Chifis Iren. 17 17 Cloros 145a 147a	Gatty Oll	Media Ceni 15 163; 347; 347; Media Ceni 345; 347; 413;	5P3 Technal, 6les 131, 131, Winn-Dixie Str 571, Sabinc Corp 512, 32 Winnebage 61, 24 Geo 312, 32 Wine Eloc Power 312, 354 Geo 373, 374 Geo 373, 374 Geo 373, 374 Geo 373, 374 Geo 375 Geo	571s   Mec Bloedel 1954   165   614   Marks & Spencer 75g 77   75   75   75   75   75   75	Cie Beconice 170   5   Pirelli Co	1,190.5 +96.5 UMAL Cons. 1.70 589 +6 Vallent Consut. 0.10 0.72 0.72	Toyota Mator 880 +5 -0.02 Victor 9,080 +30 +0.01 Wacoal 708 -3 Yamaha 663
Clucili Peeby . 1814 1774 1 Cocn Cola	Goodrich   8F] 18   177a   Caodyear Tirs 651a   2531   Could 631a   65   Grace 325a   365c	Merville	2t. Rogis Paper 215s 211s Wyly	5118 Nat. Sea Prods A 2 6	BNEL	6,990 +420 Western Mining. 2,73 Woodside Petrol 0.67 Woolwortha 1.54 Wormald Intl 9.45	+0.81 Yasuda Fire 939 +1 +0.81 Yasuda Fire 939 -0.82 Yokogowa Bdga. 4921
Coll Inds 241 24:9	Graingeri W. W) 3718 : 37	Merrill Lynch 263g 65%	Schoring Plough; 301s   3014   Zapate 1514   Zenith Radio 131s	Nthn. Telscom 451 <sub>2</sub> 453 <sub>4</sub> Oakwood Pet 10 25 <sub>6</sub> Pacific Coppor 1.07 1.07 Pan can Petrol 64 931 <sub>2</sub>	Imetal	15 Price + ar HONG KONG	July 15 Price + or
	ndices			Patino	Machines Bull 30.3 Matra 1473 4 Michalin S 529 5 Sergens B Moet Nonnesev 76014 Borregear	ank 109.5 +1.6 H.K.\$	7.50 -0.1
July July July July 14 15 12 9	y July July ———————	nce Cmail't'n Nigh · Low	July July July 1989 15 14 13 12 High L	Ranger Oil	Moulinex	45.5 -0.5 Cosmo Prap 1.70 345 +15 Cross Narbour. 10.5 10. 270 +10 Narg Seng Bank. 86.5 192.5 -2.5 NK Electric. 6.35	+0.1 Inchespe Bhd
e Industrile 804,30 824,20 824,87 814. Hime Ends. 55,49 59,66 58,85 59,6	. (41) · (10/5) /1	51.78 41.22 AUSTRALIA All Brd. Li 1880 Metal & Minis. (1.1		Royal Bank	Redaute 228 +1		+0.05 Sifne Darby 1.85 -0.61
Trinnaport., 372,54 321,72 373,44 329, Utilifics, 187,85 187,51 188,28 196,	(7:11 (21:6) (12			Teck 8	Valeo 173 July 1	Kronar SNK Props 7.35	+0.1 SOUTH AFRICA
TradingVol P06-1 54 168 65, 178 74,588 65,8 0.1v s high 831,62 law 315,26	70 68,270 46,920	DENMARK Dosenhagen 9E   1		(29/1)   harmson Nows A   181s   173s   177s   177s   177s   181s   191s   191s   191s   191s   181s   191s   181s   181s	GERMANY ASEA	205 Wheel'k Mard A. 9.05 Wheel'k Moriti'o 4.6 Warld Int, Nidgs. 2.90	+6.15 Abercom 2.5 +6.67 +0.86 AE & Cl. 9.60
Indust'i div. yiald 💲 6.6	19 June 25 June 18 Yaar 86 6,25 7.02	FRANCE CAL General 181/17 Ind Tondanco 181/17 GERMANY		Westcoast Trans 12lg 49	July 15 Price + or Electrolux Ericsson	185 -3 JAPAN 8. 61 -0.5 Jaly 10 Price	Anglo Am Cold 85 —1,6 Amglo Am Prop. 8,15 ±0,8 Barlow Rand 7,35 ±0,65
ST4NDARD AND POORS  July July July July July July July July	ily July 1019 1939 SI 5 8 7 High Low N	FAZ-Aktion (51/12/6 commerzbank:De	e1968) 584.00 084.80 588.18 584.80: 728.8 (6r4) 688.7		Allianz Vers. 451 -1 Pagersta BASF 118 -0.4 Fortie Fre BAYER 109.8 +0.5 Ma och Do	131 Yen 161 150 Alinomoto 820 170 Alinomoto 499 170 Amada 499 170 Amada 499 170 Amada 499	
tindustrie 125,65 (25,90 122,51 12 *Zempin in 115,44 116,69 189,57 101	1,76 120,52 118,96 157,28 119,41 1 14-11 18151 (28 8,43 167,55 167,22 122,74 107,29 1	88.96 3.52 ANP-CBS General ANP-CBS Indust (1 11/88 i30/6-12) HONG KONG			Sayer-Verein 275.5 Sendvik (F Shr-Bank 207.5 Skan Ensk Show Revert 180 2 2 2 KF 8	reel. 169 -1 6ridgeston6	+2 FS Geduld
Indust'i dw. yisid : 5.03		aga iapproxi	11/7/64 1515,57 1299,82 1294,85 1285,90 1446,52 (12/T) 1129,6 (1972) 159,30 149,88 148,15, 181,95 212,68 118/61 148,05	(14/2) Creditoretalt 200 1	Conti Gummi. 180 + 5 St Koppari Conti Gummi. 49.7 - 0.6 Swedish Mand Dalmier Banz. 305,6 + 0.7 Volvo: Fras	Serg 263 +2 OKBO 484 alsbn 102 -1 Dai Hippon Ptg 995 atch 109 -8 Daiwa Noise 393 Daiwa Noise 393	Nedbank 5,8 +0.19  OK Bazaurs 16,16  Profes Nidgs 9.30  +3 Rembrant 6,9 +0.19
Indust'l P E ratie 7.54 Long Gav. Gond yield 13.82	:	6.19 JAPAN**	/49) 7167,777156,00 7189,61 7146,69 7896,56 (27:1) . 6483 6.	Landerbank   190	D'sche Babcock   185   Deutscha Bank   265   +0.6	E0872 365 E152 801 Fuji 8ank 500 Fuji Film 1.350	Romies 5,85 O.B 7 Rust Plat 5,40 Sage Hidgs 2,15 SA Brown 4,00 SA Brown 5,85 SA Brown
NY. 5.E. ALL COMMON		y 13 July 19 OSIO 9E 11/1/2]	117,16 (16,81 717,25 117,41 150,58 (26,1) 103,1	Veitscher Mag 195   -6	GHH	Grean Gross	18.95 -0.55
July July July July 14 13 12 9 High   65,56 62,90 63,26 62-54 71.20 6	Falls	48 1.855 50 1,059 54 451 55 451 50 1,059 54 551 50 1,059 551 1,059 552 1,059 553 1,059 554 551 50 1,059 554 551 50 1,059 554 551 50 1,059 554 551 550 1,059 550 1,059 550 1,059 550 1,059 550 1,059	300,00		Hossen 31.2 +0.9 Holzmann P) 419 Alusulssa	Frz. Hitschi 867 Hitschi 686 455 Honda 730	(Discount of 81%) BRAZIL
AIONTREAL	17:7) New Highs 39 New Lows 50	48 53 91 51 BPAIN	- 888.9 877.3 578.2 869.5 (5/1) \$75.5 - 555.7 528.5 527.8 731.7 (8/1) 597.5	BELGIUM/LUXEMBOURG	Karstadt 919 Ciba-Gelgy Karstadt 176 Keefhal 176	1,215, +15 Housefood 990 976 976 976 976 976 976 976 976 976	-10 July 15 Price + ar +10 Cruz - +6 Agesita 170 : +081
14 13 Industrials 255,28 252	74 254,35 251.96 582,78 14,11 2	Low   Medrid 6E (39/12/61 SWEDEN   Jacobson & P. (1/1	[ 85.78 87.17 88.51 57.28 187.45 (3.2) 86.51 [ (68) 804.84 606.88 805.80 600.18 855.82 (22/1) 655.82	Frs	Krupp	PICES 97,500 +1,256   ALL 2,360   1/10   6,725   +195   Juseo   570   6,525   +100   Kallima   312	Benge Brasil 16.00 -0.99 +2 Belge Min 5.60 +0.11 +10 Brahma PP 7.50 +0.18 -2 Lojes Amer 8.90 -0.19
TORONTE Composite 1591.50 118	A.S. 1367,8 1368,6 1956,8 14,1;	7,27 (21/8) SW)TZERLAHO	(12/38) 248,5 241,48: 242,4 242,9 268,1 (11/1) 287,4	Bang Int A Lux   4,100	MAN 168,9 + 0.5 Jaimel	790 Kao Scap 499 790 Kashiyana 776 6,230 + 50 Kistomar, 370	Masnesmana IP   2.50 -0.55   -0.55
		Charge Capital Intl. 1/1/76/	- 125,2 125,6 128,1 147,2 (4:11 175,5 1	(7) Electrobal 4,150	Preussag	213 - 2 Kakuyo 903 3,925 - 26 Komateu 462 Ctsl. 530 43 Komateu Fift 345	19.65 - 19.65
18M 1.657,300 66% 4 E.Zen 1,195,200 26% A1T 1 007,000 52%	+2% Allied STR 584,190 — Chrysler 579,900 - 's Gid Lewin 576,900	2772 ÷ 3 2636 values of 77 + 4 500. HY55 All Co	all indices are 100 except Australia All Ordinary and Mommon—50; Standard and Poers—16; and Toronto—1,60	1 Cevaert 1,706	O'SHIGH 219   0.3   Surice Benk	657. —1 276. +2 3. — 9,750 —100 bk. — 980. +6 980. +6 980. +6 980. +6	this many and a second state of
		1914 — 1) industrials files 4 14 — 14 in the sable.	O Unitrees, 40 Financials and 20 Transports, c G	Pan Hidgs 1 9,150	Thysset 84 Varta 144.5 +0.5 Swiss Volks Vebs. 128.9 +0.9 Union Bank Vorein-West 269 Volkswagen 136.1 -0.1 Zurich ins	2 760 + 25   425   500   425   500   426	i. are lest traded prices; g Desires ad. ac Ex scrip lesce. ar for rights-

# Company statements illuminate drab equity market Flickering interest rate hopes nudge Gilts higher

Option

First Declara Last Account
Dealings tions Dealings Day
July 5 July 15 July 16 July 26 July 19 July 29 July 30 Aug 9 Aug 2 Aug 12 Aug 13 Aug 23 sterding's slightly easier trend
"New-time" deslings may take
place from 0.30 am two business days

The bleak prospect of a total rail shutdown from midnight on Tuesday continued to curtail investment activity in London stock markets yesterday. All main sectors, however, presented firm undertones with equity market bolstered by company trading announcements and bid situations. Following Hanson Trust's overnight offer for United Gas, a subsidiary of Pioneer Concrete Services. Pioneer Concrete Services of tion to make a east bid for Mix-

Heading the fist of companies reporting preliminary trading statements were FT Industrial Ordinary share index consti-tuents Thorn EMI and Distillers. Both made good headway, before closing below the best, but the effect on the index was countered by weakness in Bowater. This stemmed from a report that the group was contemplat-ing the closure of a Canadian ing the closure of a Canadian mill. Dowty was another blue chip to feature brightly after annual results, while London and Midland Industrials stood

The overall volume of business in equities, continued to.

Earnings, Yld.% (full)

PIE Ratio (net) (")----

Gold Mines 12/9/56. 8E Activity 1974.

HIGHS AND LOWS .

other influence, was responsible for the index losing an early gain of about a pemt and showing 2 small loss around noon, the close was 2 net 2.6 up at 556.4: Gilt-edged investors ignored

chance of another small cut next month in UK clearing bank base rates. The latest U.S. industrial production figures appeared to support U.S. bond prices which support U.S. bond prices which augmented London's firmness. Gains of a occurred throughout the list with the recently-exhausted short tap, £30-paid Treasury Convertible 12; per cent 1986, gaining that much to 30; The longer-dated Exchequar 13; per cent 1992, at 103; was among a few stocks to visa i among a few stocks to rise 1.

### Insurance dull

Insurances succumbed to endAccount profit taking. Lloyds
Brokers, well supported of late
on bid hopes, led the retreat
with Sedgwick closing 7 down at
167p and C. E. Heath 6 cheaper
at 357p. The liquidation of
speculative positions in the
absence of the rumoured bid
from Affianz left Eagle Star 6
lower at 359p. Elsewhere in
Composites, General Accident
gave up 4 to 298p and Royals
relinquished 3 to 342p. Hambro
Life felt 5 for a two-day decline
of 13 at 272p on fears ahead of Insurances succumbed to endof 13 at 272p on fears ahead of today's new business figures.

out among the lesser lights.

Still reflecting publicity given to a broker's adverse circular, ness in equities communed to the major cleaning banks condisappoint. This, more than any timed easier. Falls were limited

FINANCIAL TIMES STOCK INDICES

10 em 554.9. 11 am 554.2. Noon 563.5. 1 pm 563.5.

Basis 100 Govt. 2ccs. 12/10/26. Fixed Int. 1928, Industrial 1/7/35.

.2 pm 554.8, 3 pm 555.8,

Latest Index 01-246 8026.

Since Compiled'n

High | Low High | Low

61.89 127.4 49.18 (5/1) (8)1/85) (5/1/75)

62.79 150.4 50.83 (7/1) (28/11/47) (5/1/75)

594.0 512.1 597.3 49.4 5day Avrge. (6,6) (5/1) (69/461) (28/646) Bargaint... (5/1) (22/6) (22/67) (28/10/71) Bargains...

71,04 70,86 70,88 71,07 70,44 70,02 53,90 71,88 71,86 71,31 71,33 71,00 70,55 66,34 566,4 553,8 554-3 657,5 558,7 631,4 529,3

227.9 232.3 213.6 207.9 194.5 186.6 355.2 6,51 5:52 5.55 5.53 5.67 5.58 6,00 11,54 11,59 11,66 11,62 11,70 11,67 11,57 10,52 10,48 10,41 10,45 10,38 10,42 10,88

102,42 115,04 115,52 129,46 141,58 143,64

\_\_\_\_\_11,137 12,369 12,03810,786 10,726 13,120

Distillers

to 6, as in NatWest at 4320. Preliminary profits in excess of market estimates and an unor market estimates and an unexpected dividend increase
prompted an active trade in Distillers which advanced 13 to 187p,
after 188p. Arthur Bell rose 4
to 174p in sympathy Leading
Breweries retained a slightly
firmer bias with Arthur Guinness a penny dearer at 86p. Else-where, H. P. Bulmer continued to respond to the excellent full-year figures and improved 18 for a two-day gain of 44 to 478p.

Misconcrete jumped 63 to 178p on the cash offer worth 155p per share from Pioneer Concrete Holdings and highlighted an otherwise uninspiring Building sector. Occasional investment sector. Occasional investment demand lifted Benford Machinery demand lifted Benford Machinery
4 to 54p, while Phoenix Timber
also gained 4 to 66p.

Among Chemicais, Fisons continued and put on 8 more to
380p.

Institutional investors continued to shy away from leading
to 142p, but TI remained on offer
at 934p. down 14.

tirued to shy away from leading
Stores which finished a shade
easier for choice. Preliminary
Foods held close to the overresults from Great Universal were much as expected and the A held at 475p. Secondary counters again had little to commend them. Asprey were marked higher at fill following the increased annual profits and dividend accompanied by a 200 per cent scrip issue. Time Products made further progress on recovery hopes and firmed a penny for a two-day gain of 5 at penny for a two-day gain of 5 at 24p, but d-i-y issues turned dull with falls of 2 common to Home Charm, 163p, and A. G. Stanley, 51p.

Thorn EMI below best Preliminary profits at the top and of the same and the thermal still at 796p, with sentiment still

end of the range and the ubsence of the much-rumoured rights issue prompted a good rise in recently unsettled Thorn EMI, which touched 413p before closing 10 up on balance at 400p. Elsewhere in Electricals, Euronal Counterbid hopes in the wake ing 10 up on belance at 400p.

Elsewhere in Electricals, Euroon on counter-bid hopes in the wake of the surprise 125p per stare cash offer from Hanson Trust. jump of 22 to 442p, after 445p. Still drawing strength from recent comment, Security Centres added 6 more to 150p, while Henry Wigfall hardened 5 to 107p

the profits warning, Granada "A" rallied 6 to 180p, while invest-Thorn EMI ment demand prompted a rise on the day of i to £141 while, of 14 to 287p in AGB Research. among the lower-priced issues. Diploma found renewed support at 168p, up 8, but Christie-Tyler were marked down 2 to 22p, after 21p, on the dividend omission and near-£3m loss for the

to 53p. Profit-taking after the

Movements in response to com-

night positions after yet another featureles session. Down to 84p following anomal results in line

with market expectations, Unigate firmed to close a net

United Gas up on bid

trial leaders, falling 9 to 193p

at 796p, with sentiment still

London and Midland Industrials

Hollis Brothers and E.S.A. 5 to

**NEW HIGHS AND** 

LOWS FOR 1982 NEW HIGHS (41)

INDUSTRIALS (6)

TRUSTS (1)

INDUSTRIALS (13)

NSURANCE (11 MOTORS (2)

Inv. Murray North OUS (6)

RUBBERS (3) MINES (2)

**OPTIONS** Last Deal- Declara- Settle

ings ings tion ment July 12 July 23 Oct 14 Oct 25 July 26 Aug 6 Oct 28 Nov 8 Aug 9 Aug 20 Nov 11 Nov 22 For rate indications see end of Share Information Service Stocks favoured for the call included Huntley and Palmer, Tozer Kemsley and Millbourn, Suter Electrical, Ladbroke, Cope Allman, Candecca, Cray Electronics, John Brown, Premier Oil, William Leech and Woodside. Puts were done in Burton, British Aerospace and

Turner and Newall, while doubles were arranged in doubles were arranged in Lourho, Black and Edginton,

NEW LOWS (59) .. AMERICANS (3)

T] Weir 10pc Cnv,

Electrolitic Francis Inda, Gestetner A Nov

Dowty

ANZ

Throp. Cap.

BRITISH FUNDS (12)
COMMONWEALTH AND
AFRICAN LOANS (1)
Australia 50c 1931-93
AMERICANS (4)
CORS. FOODS
BOM COPP.
GOR. Electric Unit. Tech.
Sulmer (H. P.)
BEERS (2)
Datilities

penny up at 86p.

Trident TV "A" were briskly traded and touched ?4p before settling for s net gain of 5 at 73p; the Playboy casino licence appeal is due to be heard later this month. Adverse comment resulted in renewed duliness among holiday tour operators and Horizon eased 3 to 170p, while Intasum shed a couple of pence at 113p.

Down to 1320 immediately in front of the announcement, Dowty rallied strongly following better-than-expected annual earnings and closed 9 up on halance at a 1982 peak of 144p. halance at a 1982 peak of 144p.
In contrast, Lucas continued to
lack support and gave up 4 more
to 151p, while Dunlop eased a
conple of pence to 64p. Distributors featured Henlys which
jumped 9 for a two-day gain of
12 at 95p on renewed speculative
demand. satisfactory results saw Jones Strond retreat from an initial firm level of 103p to end a net 2

Movements in response to company trading statements helped to enliven an otherwise drah trading session in Engineers. G. M. Firth, reflecting the return to profitable trading, edvanced 13 to 150p, while Bratthwaite rose 7 to 125p and Howden Group 5 Halved interim profits from Associated Newspapers proved no worse than feared and the no worse than feared and the shares eased 3 to 175p in very quiet trading; Dally Mail "A" gave up a like amount to 405p in sympathy. East Midland Allied Press "A" advanced 6 to 82p in belated response to the chairman's comments at Tuesday's annual meeting. Bemrose closed 4 cheaper at 140p; the contested offer from Bunzl has lapsed, having gained only nominal accepto 138p following satisfactory pre-liminary figures. Symonds liminary figures. Symonds hardened a penny to 12p on the annual results, while GEI International responded to the encouraging tenor of the chairman's statement with a gain of 3 to 74p. Senior Engineering, in contrast, eased a penny to 251p, sentiment being unsettled by the ing gained only nominal acceptance. Bunzl added 2 to 165p, while British Printing and Communication, which now holds almost 20 per cent of Bemrose,

held at 34p. Quietly firm conditions pre-vailed in Properties. MEPC firmed 4 to 173p as did Greycoat Estates, to 120p, the latter fol-lowing the preliminary results.

### Oils better again

Helped by overnight firmness on Wall Street and by the impli-cations of the Iraq/Iran conflict. Oil shares opened a few pence dearer and improved a little Pilkington came on offer among the miscellaneous indusdearer and improved a little further on scattered lavestment support. Early interest, however, soon fizzled out and quotations closed below the best. Shell stood out with a gain of S at 392p, after 394p, but British Petroleum ended only a couple of pence harder at 266p, after 268p. Lasmo picked up 10 further to 392p.

### Golds mixed

Gold shares opened lower in Londoo in line with the previous day's New York dealings, but the apparent steadiness of the bul-lion price around the \$350 level brought in some buying and prices rallied during the day. News of further selling in the U.S. at the Wall Street opening sdvanced 9 to 88p, after 91p, following better than expected took some of the steam out of the recovery, and many prices closed a little below the preennual results, while an invest-ment recommendation lifted

on the day of 1 to 272; word, among the lower-priced issues, Grootviei closed at 325p, 13 to the good, while Free State Development put on 25 to 175p. Fells were registered by President Brand at £132, Free State Geduld at £11% and Western Holdings at £13%, all

Southwasi retained an advance

about half lower. about 4 lower.

Harmony lost 14 to 454p, and the holding company Zandpan followed suit with a decline of

South African Financials were South African Financials were not so hadly hit by the U.S. selling, and "Amgold" closed 1; to the good at £30; while Gold Fields of South Africa gained

11 to £281. In Diamonds, renewed London interest boosted De Beers 4 to 206p. Elsewhere, Minorco put on 15

Australians were

Australians were a little firmer, to line with overnight domestic markets. Peko-Wallsend gained 6 to 225p, while CRA, 170p, and Western Mining, 181p, both closed 4 to the good, and MIM Holdings rose 3 to 157p. Demand for Traded Options continued to contract and only 1,042 deals were taken ont, the lowest so far this month. Calls lowest so far this month. Calls totalled a meagre 757, of which recently popular Imperial Group accounted for 141. Only 285 puts

### RISES AND FALLS YESTERDAY

were struck.

	Rises	Falts	Same
2ritish Funds	71	5	15
Corpns., Dom, and		_	-
Foregin Bonds	8	-3	65
Industrials	190	183	962
Financial & Props.	58	92	352
Oils	32	12	63
Plantations	-	7	16
Mines	35	44	78
Others	49	46	62
Totals	443	392	1,623

### Decrease at Daily Mail and General

Net revenue of Daily Mail and General Trust, an investment holding company, has fallen to £2.07m for the six months to March 31 1962, compared with £3.06m last time. The result includes a proportion of the profits of Associated Newspapers Group, in which the company owns 49.95 per ceot of the Of the net revenue, £1.37m

(£1.35m) is attributable to the Dally Mail and General Trust. Net revenue from investments other than Associated Newspapers was £682,000 (£670,000).
Earnings per 50p share rose marginally from 13.4p to 13.5p and the interim dividend is unchanged at 11p net, payable August 31-the previous year's total was 30p.

Total valuation of investments was £65.5m (£81.1m) and net vious day's levets, asset value per share.

The Gold Mines index gave up from 800p to 644p.

### RECENT ISSUES

issuc price p	Amount paid up Latest Renune.	1983 High Low	Stock	Olosing price		Divi p.		
\$250 \$45 \$45 \$90 \$15 \$250 \$312 \$30	F.P F.P - 30/7 F.P	43   40 201e 72 15   11 48   41 287 260 103 92 55 60 103 92 19 450 293 52 170 140 105 104 63 52 82 84 17 10 60 58 126 130 630 595 153 150 630 595 163 150	Anglo-Nordic 5p Angyli Foods Warr'ts. Argyli Foods Warr'ts. Argyli Foods Warr'ts. Assoc Neat Services Atlentis Res. Int. Balrstow Eves 5p Balack Michaell 20p Cambrian & Gan. 7;p Cont. Microwave Soancora. Bruck Hidgs. Becobric New Ords: Bode Ordic New Ords: Do. Oeld. Electro-Prot. USS 50 Group Inv Option. Kinght Cmptr IntSp McCarthy & Stona. Milled St. 10; Cilliaid Insp. Srec. Pandio City '4' NV Ruddie (6: 10e Walker (Alfred) 10p. Zambia Cons Cer 10k	40 79 13 44 63 44 63 50 450 170 104 65 12 190 190 152 180 180	-1 +1 +20	50.89 7.0 7.0 51.51 43.0 52.3 541.5 541.5 541.5 541.5 541.5 541.5 541.5 541.5 541.5 541.5 541.5	2.5 4 2.4 4 2.5 1 2.4 4 2.5 1 2.7 2 2.7 4 2.7 2 2.7 4 2.7 2 2.7 4 3.9 1	.5. 4 .5. 13.0 .7. 12.7 .7. 16.7 .9. 18.3 .5. 11.4 .5. 11

EQUITIES

### **FIXED INTEREST STOCKS**

isoue price	Amount paid up	Latest Renuno dato	1982 High Low	Stock	Closing price E
1100 1100 1100 1100 1100 98.55 100 100 99.545	F.P.	25/8 22/7 30/7 9/7	107 99 114 1012 12 pm 4 pm 14642 130 109 107 101 9112 10072 10012 10073 10012 10052 9972 2812 2412	Antofogasta 5.5% Pref. (£1) Benlox 8% Conv. Cum. Rd. Pf. Boumemouthwater9% Rod. Prf. (8789) Cronite 14% Gnv. Uns. Ln. (99) First Nat. 12%pc Conv. Uns. Ln. (1987) **LonaContill%*Conv. Sub Uns. Ln. (1987) **Mariborough Props. (0% Cnv. Ln. (98 202) **Mariborough Props. (0% Cnv. Ln. (198 202) **Mariborough Props. (198 202) **Mariboroug	991 1134 15 pm 154 108 911 2612 + 14 10054 10056 2656, + 36

### "RIGHTS" OFFERS

ı						_
	lesue a sel	Renunc. detc	1982   Nigh   Low	Stock	Olosing prioc	<u>+                                    </u>
	103 NI 25 NI 78 NI 174 F.P 95 NI 55 NI 50 F.P 525 F.P	13/5 24/8 29/7 86/8 18/6 30/7 125/7 5/9 24/5 15/8	14-pm 1pm 5pm 3pm 235 218 8pm 9pm 104-pm 8pm 51 52	Applied Comeuter Tech Bank Leumi IUK £1. Blundell-Permoglaze Cronite Goal Pet. Sp. Grand Mot 50e Jenks & Cottell Minuter Assets Preus (Wm.) 10p Santchi & Santchi 10p Sketchiey	158 I5pm I1gpm 5pm 235 3pm 101cem 50	+5

Renunciation date usually last day for dealing free of stamp duty b Figures based on erospectual eatimola. d Dividend rate paid or payable on eart of capital; cover bosed on dividend on full capital. g Assumed dividend and yield. I indicated dividend: cover relates to provious dividend. P E rate based on latest annual asmings. u Foregast dividend; cover based on provious year's earnings. F Dividend and yield based on prospectus or either official estimates for 1953. Q Gross. T Figures assumed. © Figures at report awaited, a Cover ellows for conversion of sharea not new ranking for dividend or tanking only for restricted dividenda. § Placing price. p Penco unless otherwise indicated. I leaued by tender. (I Officral to holdern of ordinary shares as a "rights." \* leaued by way of capitalisation. § Sourtroduced. I sesued to former ordinaries continuous merger or take-over. [II] Introduction. [I issued to former ordinarence holders.

Allorment letters (or fully-poid). © Provisional or partly-paid ellorment lettors. \* With warrants. If Osolings under special Rule. \* Unisted Socumbas Market. It Londen Listing. It Effective issue price after scrip. (Fermarky dealt in under Rule 163(2)(a). It Unis comertising five ordinary and three Cap. abares. A Issued Ireo as an ontitionent to ordinary holders.

### WEDNESDAY'S ACTIVE STOCKS

Based on bargains recorded in SE Official List

	Wednesday's					Wednesday's		
	No. of price		Oay's		Price	closing price	Oay's	
Stock	changes	ponce	change	Stack	chengos	pence	change	
Glaxo	20	793	+ 28	BAT Industries	9	453	+ 1	
Cable end Wre		263	7	BP	9	264	+ 4	
Bulmer (H. P.)		460	+26	Hambro Lile		377	- 9	
Beechem	44	289	+11	MEPC	-	169	+ 2	
GEC		E103e		Plessey		500	+ 8	
ici		298	_	RTZ	•	387	4	
Oe Bears Delo		210	1	Ferranti	•	810	+10	

### ACTIVE STOCKS

Steck	Closing price pence	Day's change	Stock	Price pence	Oay's
owater	193	- 7	Firth (G. M.)	150	+13
enselidated Gold Flds	380	+ 7	Mixconcrete	178	+63
istillors	187	+13	RTZ	390	
owty	144	+ 9	Shell Transport	392	+ 3 + 8
gle Star	359	- 2	Thoin EMI	400	+10
irotherm	442	+22	Trident TV A	73	+ 3

### FT-ACTUARIES SHARE INDICES

S.E. ACTIVITY

Equities ..... Bargains... Value

187.8 215.1

200.2 195.2

These Indices are the joint compilation of the Financial Times, the Institute of Actuaries and the Faculty of Actuaries

; ·	EQUITY GROUPS	DUPS Thurs July 15 1982			2	Wed .	Tipes July 13	Man July 12	Fri July 9	(approse) ago Acar	
Flor	& SUB-SECTIONS.  Bress in purentheles show number of stocks per section	Index No.	Day's Change	Est. Earnings Vield % (Max.)	Gross Div. Yield % (ACT at 30%)	· INet	index No.	Index No.	factors No.	Index No.	index No.
1	CAPITAL 90005 (209)	395.51	-0.3	9.59	427	12.95	393.79	393.79		393.66	349.36
2	Building Materials (23)	3/4/4	-0.2	12.74	5.67	9.75	324.34	32K10		321.27	362.23
3	Contracting, Construction (28)	500.FM	-8.6	15.09	5.31	7.81	584.56	506.69		583.79	5754
4	Electricals (31)	1552.35	-0.7	6.79	2.09	18.71	1953.41 479.14	1549.50 475.20		1548.94 479.18	1140.05
. 5	Engineering Contractors (1.1)	477.60 194.64	-0.3 +0.5	11.78	6.33	10.24	193.61	194.39		196.18	208.83
. 6	Mechanical Engineering (67)	349.57				9.79	145.25	145.93		145.52	145.83
8	Metals and Metal Forming (31)	ME 98	+0.2	12.65 2.95	8.33	3.73	1518	85.74		84.55	95.57
10	Motors (20)	371.66	-0.8	10.53	6.07	77.67	354.72	355.56		355.94	377.75
21	CONSTINUER OROUP (202)	308.71	+0.4	12.91	5.66	9.38	307.33	306.10		383.72	279.76
:22	Browers and Distillers (22)	326.76	+1.2	14.20	6.26	8.60	322.92	322.65	323.15	319.43	318.51
25	Food Manufacturing (22)	264.75		17.59	7.11	6.64	26486	265.09	264.44	263.18	257.80
26	Food Retailing (14)	434.01	-0.2	9.32	3.53	13.17	635.32	638.97	636 17	634.58	527.A7
27	Health and Household products (9)	510.17	+13	- 6.80	3.32	17.35	503.54	468.77	485.67	478.65	337.72
29	1 cierce (23)	401.78	+1.2	10.62	5.83	11.89	397.14	3%.19	399.36	35.65	431.30
32	Newspapers, Publishing (13)	500.79	-01	13.61	6.23	9.25	501.38	502.43	505.33	57.25	504.41
33	Packaging and Paper (24)	137.12	1.3	17.56	8.05	6.62	198.92	140.42		141.18	144.50
34	Stores (45)	271.07	+8.2	20.70	5.13	1238	278.64	263.57	269.89	268.67	261.84
35	. Textiles (29)	160.90		14.43	6.68	8.44	160.92	161.59	162.19	161.46	159.97
36	Tobaccos (3)	339.40	+0.1	6.30	8.16	4.91	338.89 268.96	339.27 263.19	334.90 263.65	335.23	298.31 299.67
39	Other Consumer (14)	262.24	+0.5	14.28	6.37	37.11		248.70	248.15	249.29	224.32
41	OTHER GROUPS (76)	248.84 325.34	+0.2	1467	7.37	8.17	248.29 322.83	323.1B	323.17	323.97	278.16
42	Chemicals (15)	96.68	+01	16.82	9.63	7.30	96.54	95.21	95.43	301.80	188.02
	Office Equipment (4)	559.72	-8.2	19.10	7.35	6.37	564.90	563.94	554.86	55419	548.42
45	Miscelianeous (44)	329.44	+0.4	12.21	5.73	16.04	328.10	329.10	32453	328.91	296.62
46	HEDUSTRIAL GROUP (487)	329.02	+0.2	1183	5.26	10.32	328.36	327.78	327.94	326.58	295.72
49		661 32		23.99	830	4.72	652.44	646.70	660.31	669.60	707.08
51	OHs (13)		+14	1362					355.25	354.43	
59	500 SHARE INDEX	356.23	+0.4	1362	5.79	8.79	354.92	353.92			\$29.05
61	FINANCIAL CROUP (117)	241.75	0.5		7.02	2.79	242.91	26312	244.33	2633	271.36
62	Banks(6)	262.34	-0.8	39.19	8.66		254.34	265.55	266.89	267.77	260.13
63	Discount Houses (9)	234.54	-14	- 1	9.72		237.%	258.20	257.99	23335	277.91
65	Insurance (Life) (9)	264.06	-6.6		6.87		267.78	268.95	271.42	269.46	276.66
66	Insurance (Composite) (10)	155.13	10		933		156.67	154.16	157.65	155.83	175.00
67	Ingurance Brokers (7)	510.26	-21	11.04	5.09	12.40	521.38	524.61	526.32	524.77	411.88
68	Merchant Banks (22)	131.75	-0.1		6.73		131.88	13221	13L62	131.84	173.29
69	Property (49)	395.47	+9.5	5.76	4.08	23.22	343.62	371.96	393.45	394.72	499.36
70	Other Financial (15)	164.70	+0.2	18.60	6.95	6.22	IN S	165.18	165.91	165.41	181.60
7	Investment Treats (111)	290.27	-0.1		5.65		298.61	29L55	299.77	247.53	330.00
81	Mining Finance (4)	19548	+1.2	16.18	7.26	7.75	193.14	144.70	195.75	147.15	240.78
91	Overseas Traders (18)	357.20	+8.2	14.37	8.97	8.55	356.52	356.66	354.66	357.25	436.17
60		325.71	+0.2	<b>-</b> T	6.96	· ·	325.01	324.47	325.55	32L65	317-81
				T	•					Mari	

F	DXED	INTE	REST		AVERAGE GROSS REDEMPTION YIELDS Thurs July 15 14	(abbuse) ago Asa.	
PRICE	Thurs July 15	Day's change %	Wed July 14	xd adj. today	ud adj. 1982 to date	Religio Government   1863   1861   1215   1222   1245   1251	1252 1338 1364
-1 Syers	113.76 114.92 118.80 121.98	+8.57 +8.42 +8.37 +8.65	113.74 114.75 118.36 121.66	9.67 6.51 —	6.26 7.28 7.64 7.27	4 Medium 5 years 13.18 13.27 5 Coupons 15 years 12.25 13.31 6 25 years 12.24 12.29 1 High 5 years 13.49 1 Coupons 15 years 13.49 9 25 years 12.85 12.89 0 Irredocumbles 12.17	14.78 15.38 14.94 14.85 15.95 15.16
5 All Stocks	115.44	+4.30	115.28	834	7.63 5.83	1 Dels & Lams 5 years	15.79 15.90 15.91

64.36 +4.06 66.31 - 3.58 1.4 Preference

# **WORLD VALUE OF THE DOLLAR**

Bank of America NT & SA, Economics Department, London

COUNTRY	CURRENCY	DOLLAR	COUNTRY	CURRENCY .	VALUE OF DOLLAR	COUNTRY	CURRENCY	VALUE OF DOLLAR
Afghanistan Albania: Algeria	Afghani (O)	68.23	Grenada E.	Caribbean \$	2,7025	Philippinas	Peso	8,475
Algaria	., LOK	5,8551	Guadaloupe Fr	ane ·	5.95 1,00	I PICAITI IS	N.Z. Doller	1,354
4m.4x.m.	(Fr. Franc	5,95	Guctemale	o. e tetzai	1.00	Poland Portugal	Zioty IOI	80,00 25,05
Andorra	- IBp. Peseta	119,335	Guadaloupe Fr Guam U. Guotemala Qu Guinea Bissau Pe	50 50	40.5099	Port Timor	Escudo (7)	25,05 n.a.
Antigua	Kwanza	30,214	4 Guitles vob	711	22,7273	Port Timor Puerto Rico	U.6. S	1,00
Antigua	L Paso III (2)	9.7025 37500.	LOUVADS	Miar	3,0159	Qatar	. Rivei	3,5397
Argantina	Peso (c) (S)	90000.	Haiti	ourde	5.00	Reunion lie de la.	Fr. Franc	6,95
Australia	Dollar	0.9884	Hong Kong Do	impira Ner	5,917	Romanie	Leu (O)	4.47
Austrajia	. Schilling	17.56 85-05	Haiti	rint	58,4043	Romanie	Franc	99,84
		1,00.	Iceland Kr	ORC	11,323	St. Christopher	E. Caribbean \$	2,7023
Bahrain	Olmar	0.377	India Ru Indonesia Ru	pee	9.5694	St. Helena	Pound	1,795 2,7025
Bahrain Balearic Is Bangladesh	Sp. Pesetz	112,335 26,15	IndonesiaRu	ipiah	539,50 81,09	St. Pietre	Er Ereno	5.95
Berbados	Taka Dollar	2,01	Iran Ris	Der .	0.9953	St. Pierre.	E. Caribbean \$	2,7025
Selelum	Franc (C)	47.535 **	Iraq	int*	1.3795 25,515			0,819
Selgium	Franc (F)	51,556	Israel 6h	lekel		Samos (Am.) San Merino	U.S. 5	1.00
2012¢	Dollar .	2.00 346.50	Italy Liz	ra FA Franc	1398.75 346.50			1000.10
Bermuda	Doller	1.00	Jamaica Do	lian .	1.7834	Sao Tome & Principe OR	Dobro	41,6508
Belizo	. Ind. Rupee	0.5694	Japan Ye	na N	856.55	BOSUOI ATRONS	. KIYAJ	ö.4395
Date:		44,00 1,1095	Japan Ye Jordan Di	nar	0.357	Senegal Seycheliss	C.F.A. Frenc	346,50
Brazil	. Pula	175.84	Kampuchea	eľ	п.А.	Beycheliss	Rupee	7.5598 1.2585
Brunei	. Dollar	2.1605	Kenya Bh	illing	10.994 0.9884	Sierre Leone Singepore	Dollar	2.1505
Brazil Brunei Bulgaria Burma Burma	. Lev	0.958	Koree (Nth) W	ISC DOIRE	0.9884	Solomon is Somali Rep	Doller	0.9303
Burma	. Kyat	7,895	Korea (Sth) Wo	חם	740.60	Somali Rep	gh/iling	5.53
Cameroun Rp.	OTA France	346.50	MOTION CHIMINAHIMI DI	INOM	0.2872	South Africa	Bhilling Band	19,46 1,1502
Canada	Deller	1,2716	Lao P'pis O. Rep Kip	D	10,00	Spain	Paseta.	112,385
Canary la	. Sp. Pesets	112,355	Lebanon Po	und	5.165			
Canary is Cape Varde is	. Escude	54.70	Lesotho Lo Liberis Do	ti Noe	1.1501 1.00	Span. Ports in N.	Sp. Peseta	112,335
Cayman Is. Cen. Af. Rep.	. Dollar	0.836 346.50	Libya nii	ner .	0,2251	Sri Lanka	Rupen	20.85
Ched	C.F.A. Franc	546,50	Liechtenst'n, Sw	v. Franc	8,1263	Sri Lanka Sudan Rep	Pound* (1)	1,1111
VIII/9 — — — — — — — — — — — — — — — — — — —	. Paso (C) (O)	45,22	Luxembourg Lu	ox Franc	47,536	: Sunnam	. Guilder .	1.723
		1,0546	Macao	taca	6,1507	Swaziland	. Lilongani	1.1501 6.1818
	_ Pago (O)	64,10 345,50	Madagascar O. R Fr	anc	364,15	Sweden Switzerland	Franc	2.1265
Comoros CongoP Pla.Rep.o	C.F.A. Franc	346.50	[ M206174 PO	ALL FECUDO	85,05	Syria	Pound	3,995
Control Pidelinship	(Colon IO)	20.00	Malawi Kv	Nacita (9)	1.1148 2,371	<b>-</b>	B	
Costa Rica	Colon	38.17	MalaysiaRii Maldive is	ifiyaz (O)	5,93	Taiwan	Dollar IO)	39.39 2.4493
CUbs	Paco .	0,8363 2,0536	Ru	ifiyea (M)	7,53	Thailand	Rent	25.00
Cyprus Czechoslovakia	, Pound	5.10	Mail RpFr	ane .	693,00 2,3892	JACC RED.	C.E.A. Erano	346.30
OCCUPANTAL SERVICE	, rotatie (o)	2.6258	MaltaPo MartiniqueFr	wno"	5.95	Tongo Is.	Pa'anga	0,9284
Denmark Dlibouti Rp. of	. Kronz	177.72	i Mauritanie Ou	Jo Li <b>iva</b>	31,29	Trinided & Tobago	Doller	2.409
DOMINICA.	F. Coribbaso 5	2,7025	Mauritius Ru Mexico Pe	ibee	11.10	Turkey	. Dunar Ura (2)	0,6113 153,35
Domin. Reb	. Peso	1.00	MexicoPe	ilo	48,443	Turks & Caicos	1.2.8	1.00
Ecuador	Suera (O) (4)	33.00	I MIIGURIOR	ranc	0,95 0,93	Tuvalu	Aust. Dollar	0.9884
	Sucra IF)	60.75 1.4286	Monaco Fr. Mongolia Tu	. rrauje jorik (A)	3.3553		<b>61.1111</b>	
Egypt	Pound* (1)	1.2225	I Montgarret F.	Caribbash S	8,7025	Ugando utd. A'b. Emir. Utd. Kingdom. upper Volta	2nilling	22.42 5.5722
El Salvador	Colon	2,50	Mozambique Me	rham	8,1696	Utd. Kingdom.	Pound Sterlings	1.725
EQTI GUIRER	Ekuale	224,67	Mozambique Me	atiça .	30,5087	Upper Volta	C.F.A. Franc	345.50
KTIHODIS .		2,0522 - 2,6258	Namibia 8./	A. Rand	1,1501			12,522
raoroe II	, Dan, Krone	1.725	Nauru Is Au Nepal Ru	ıst. Dollar	0,9864	U.S.S.R.	. Rouble	0,755
Faeroe is	. Pounti	0.939	Nepal Ru	ipec	15,20 9,7515	Vanuatu	Vat.	112,00
Finland	Markka	4.7813			. 1.80			0.9884
		2.93	Neth, Ant les	Meer .	1,354	Vatican	Liza	1393.75
PP. CITY IN AC.	CC I Empha	846.50 - 5.93	Nicaragua	rdeba	10,05 -	I Vapazuola	Baliner	4.2237
Fr. Guiana Fr. Pag. Is	, Franc O F D Embo	121,759	Niger Rp C.I	F.A. Franc	346,50	Vietnam Virgin is. Br. Virgin is. U.S	. Dong (O)	2.12
Gabon	C.F.A. France	346,50	Nigeria Na	ira (O)	0.6739	Virgin Is. Bla	. U.S. 8	1.00 1.00
Gumbia	Dalasi	2,5188	Norway Kr Oman,Sultanate of Riz	ene .	5.3895 0.3456	Vamen	Bial	4.5605
GEFTT ANY (E)	. Ostmark (O)	2.495			-	Yemen Yomen PDR	rudi Dinar	0.3455
261 M919 (W)	. Mark	2.495 2.75	Pakistan Ru	ipee	12.1578 1,00	Yugaslayla	Oinar	48,4583
Ghana Gibraltar	. Cedi . Pound *	1.723	Panama Ba		0,7452	Zaire Rp.	Zalce	3.8455
ÿf <b>ee</b> ce	. Drechma (5)	70,325	[ Paraguay Gu	arani -	126.00	Zambia Zimbabwe	Kwache	0,943
reenland.	Ban V	8.6258	Peru \$0	.i	590,38	1 7:	B. II	-0.7634

## CURRENCIES and MONEY

# Dollar nervous

The dollar was illus changed in thin foreign exchange trading. Figures for U.S. industrial production in June were in line with market expectations, and had little impact. Attention continued to centre on the weekly money supply figures to be announced today, which are expected to show a large rise, although the wide range of the state of th expected to show a large rise, improved to DM 4.3040 from although the wide range of DM 4.3020, and the Swiss franc market estimates. ranging from to DM 1.1732 from DM 1.1731.

narrow base, failing to gain any benefit from fears of disrup-tions to oil supplies because of the conflict between Iraq and

DOLLAR — Trade weighted index (Bank of England) 121.3 against 121.5 on Wednesday, and 109.0 six months ago. Three-month Treasury bills 11.80 per cont. (12.11 per cont.)

Belgian Franc ...

Danish Krone ... German O-Mark French Franc ... Outch Guildor ...

EMS EUROPEAN CURRENCY UNIT RATES

+0.28 -0.69 +1.34 -0.58 +1.13 -9.59 -2.18

against ECU July 19

9.17722 2.36510 0.57540 2.60876 0.686968 1321,05

Changes are for ECU, therefore positive change denotes o week currency. Adjustment calculated by Financial Times.

(19.60 per cent six months ago). Annual inflation 5.8 per cent (5.3 per cent previous month)—The Deutsche Mark declined against

Sabo to S10bn, added to the quiet, nervous cooditions:

Sterting traded within a fairly france from DM 35.970 per 100 france from DM 36.010. Nervous france from DM 36.010 france franc ness about the conflict in the

ness about the conflict in the Middle East and future U.S. interest rate treods ahead of this week'o money supply figures kept the market cautious.

FRENCH FRANC—EMS member (central position). Tradeweighted index 73.5 against 73.6 on Wednesday and 80.2 six months ago. Three-month interbank 14) per cent (15% per cent six months ago.). Annual inflation

and 109.0 six months ago. Three-month Treasury bills 11.80 per cent (12.14 per cent six months ago). Annual inflation 6.7 per cent (6.6 per cent previous month)—The dollar rose to DM 2.4955 from DM 2.4940 against the D-mark; and to FFr 6.9425 from FFr 6.9225 against the French franc. Oc the other hand, it was unchanged at Y256.10 in terms of the Japanese yen, and fell to SwFr 2.1225 from SwFr 2

-0.97 +1.06 -0.86 +0.85 -0.87 -2.12

### THE POUND SPOT AND FORWARD

ها المرابع المحافظ والمرابع والمحافظ والمنطوع والمعافظ والمعافظ والمستوان وا

July 15	Day's apress	Close	One month	g.s.	Three morths	P-4
U.S.	1,7155-1,7265	1,7200-1,7210	0.23-0.33c dis		1.05-1.15dis	-2.5
Canada	2,1755-2,1895	2,1765-2.1775	0.73-0.83c dis	-4.30	2.28-2.38dis	-4.2
Nethind.	4.72-4.76	4.73-4.74	14-14c pm	3.42	43-35 000	3.2
8elgium	81.60-82.20	\$1.80-81.90	12-23¢ dis	-2.64	58-63 dia	-2.8
<b>Genmark</b>	14.821-14.8912	14.831-14.841	14-24ors dis	-1.52	94-10% dfs	-2.5
reland	1.2445-1.2525	1.2465-1.2475	0.52-0.64g dis	-5.58	1.73-1.89dis	-5.8
W. Ger.	4.281,-4.311-	4,29-4.30	71-1pt pm	3,49	37-33 pm	3.3
Portugel	145.75-147.00	145.20-146,70	75-255c dis	-13.52	215-745dia ·	-11.1
Spain	193,70-194.30	194.00-194.20	125-150c dis	-8.50	435-490 dis	-9.5
Italy	2.397-2.408	2.398-2.400 -	131-181, line dis	-7.61	46-45 die	-7.9
Norway	10.98-11.03	10.99-11.00	51-61-crs dia	-6,21	101-117-dis	-4.1
Franco	11.92-11.98	11,94-11.25	2-3c dis	-2.51	9'4-10's dis	-3.2
Sweden	10.587 - 10.647	10.59-10.60	15-25ors dis		51-61 dis	-22
Jepan	438-444	440-441	2.02-1.92y pm		5.55-5.30 pm	
Austria	30.20-30.35	30.27-30.32	12-8% gro pm		29 4-Z3 gm	3.4
Switz.	2.841-3.687	3.544-3.654	3-21 c pm		7-7 pm	7.9

### THE DOLLAR SPOT AND FORWARD

July 16	apread	Close	One month	p.a-	months	9.2.
UKt	1.7155-1.7265	1.7290-1.7210	0.23-0.33c dis		1.05-1.15dis	
relandt	1,3765-1,3810	1,3755-1,3785	0.46-0.36s pm	3.56	1.20-1.05 pm	3.25
Canada	1,2845-1,2593	1.2645-1.2655	0.23-0.25c dis	-1.30	0.54-0.57dia	-0.98
Nethind.	2.7450-2.7540	2,7480-2,7520	1.30-1,20c pm	5.45	3.23-3.23 pm	5.64
8elg1um	47.53-47.58	47.55-47.58	2-4¢ dis	-0.76	2-3 dis	-0.29
Danmork	2.6175-8.6290	2,6175-8.6225	0.25ors pm-per		1.00-1.50dis	
W. Ger.	2,4910-2,5040	2.4950-2.4960	1.15-1.11of pm	5.46	3.70-3.65 pm	5.89
Portugel	84.90-85.25	85,00-85,25	40-140c dis		'90-380 dia -	-11.05
Spain	112.53-112.68	112.63-112.68	50-60c d is			-2.33
Italy	1,392-1,395	1,392-1,394	6-7 lire dia	-6.59		-5.52
Norway	6.3810-6.3890	6,3840-6.3890	2.00-2.40ara dis			
France	6,9250-6,9550	6.9400-6.9450	0.25-0.45c dis			-0.75
6 waden	6.1530-6.1600	9.1530-6.1580	0.10ors pm-0.10	dis -	9.65-0.45 pm	0.36
Japan	255.90-258.65	256.05-256.15	1.60-1.52y pm		4.78-4.52 pm	
Austrio	17.56-17.6012	17.60-17.6012	912-81 grogm		271-241 pm	5,98
Swrtz.	2.1200-2.1330	2.1220-2.1230	1.83-1.85c pm	10.66	5.49-5.41 pm	10.27

† UK and treland are quoted in U.S. currency. Forward premiums and discounts apply to the U.S. dellar and not to the individual currency.

### **CURRENCY MOVEMENTS**

July 10 ·	Bank of England Index	Morgan Guaranty Changes	Juty 15	Bank rate		European Currency Units
ng	94.8 81.7 124.2 144.4 118.4 76.6	-32.2 +12.0 -20.0 +26.3 -1.7 -14.7 +49.0 +95.8 +25.2 -99.4 +26.4	Sterling	12 16.50 64 14 11 74 8 01 19 51 9	1.08595 N:A 19.0798 61.6903 9.37429 2.71187 2.98957 7.53798 1514.97 276.915 6.94018	0.548618 0.945986 1.20229 10.6480 45.0955 817722 2.06510 2.60870 1321.05 942.619 6.04566 106.725

**CURRENCY RATES** 

### OTHER CURRENCIES

July 10	. 2	-18	· :	Note Rates
Argentina Peso. AustraliaDollar Brazii Gruzeiro Finiand Markka Greek Ilrachma Hong Kong Dollar IranRiai	1.6075-1.6995 202-303 8.2083-8,2182 120,222-121,237 10,1180-10,1380	0,9882-0,9887 176,40-176,28 4,7640-4,7660 70,25-70,40 5,8905-5,8945 484,70	Austria Beiglum Banmark Franca Germany, Italy	14.80-14.94 11.90-12.00 4.284-4.324
KuwaktBiner(KD) Luxembourg Fr Maleysla Doltar New Zealand Ilir Saudi Arab. Riyali Saudi Arab. Riyali Singapore Doltar. Sth.African Rand U.A.E. Birham	81.80-81.90 4.0564-4.6630 2.3280-2.8320 5.9030-5.9095 5.6930-3.7000 1.9907-1.9942	47.66-47.58 2.0010-2.3640 1.3823-1.3541 5.4385-3.4405 2.1505-2.1535	Neiherlands Nerway Portugal Spain , Sweden Writzerland United States	4.72½.4.76½ 10.97-11.07 142½-159 186¼-105¼ 10.58-10.68 0.65½-3.60½ 1,71½-1-70½

† Rate shown for Argentina is commercial. Financial rate: 62,147-63,187 against starling 36,700-38,750 against dollar,

The fixing rates are the arithmetic means, rounded to the nearest ons-aixteenth, of the bid and offered rate for \$10m quoted by the market to five reference banks at 11 em each working day. The banks are firstonel Wastminster Bank of Tokyo, Deutsche Bank, Banque Nationals de Paris and Morgan

### **EXCHANGE CROSS RATES**

central rates

44.9704 8.27400 2.33379 6.01387 2.57971 0.691011 1350.27

July 15	Pound St'rling	U.S. Pollar	Deutschem'!	LapaneseYen	FrenchFranc	Swiss Franc	Butet Gulld'	Italian Lira	Canada Dollar	Belgian Fran
Pound Sterling U.S. Dollar	0,681	1.721	4,295 2,496	440,5 256,0	11.95 6,948	3.053 2.123	4.730 2.789	2320. 1894.	2,177 1,265	81,85 47,87
lleutschemark Japanose Yen 1,000	0.233 8.270	0,401 3,906	0,750	102.8 1000,	2.781 27.12	0,850	1.102 10.76	568.6	0,507	10,00 185,8
French Frano 10 Swiss Franc	0.937 0.874	1,440 0,471	0.596 1,170	368,9 120.0	0,270	3,058	3,984 1,296	2006. 655,8	1.896 0.508	68,52
ituch Gulider Italian Li <i>r</i> a 1,300	0.211 0.417	0.363 0.717	1,907 1,790	93.03 183.0	2,523 4,979	0.771 1,583	1.974	506,7 1000,	0,458	17.39
Janadian Dollar Belgian Franc 100	0.450 1.222	0.790 2.102	1,973 5,247	202,3 538.2	5.487 14,59	1,078 4,462	2,178 5,785	1103.	2.850	37.60 100.

### FT LONDON INTERBANK FIXING (11.00 a.m. JULY 15)

offer 13 8/8

bid 15 1/4

EURO-CURRENCY II	NTEREST RAT	ES (Mar	ket clo	sing Rat	tes)					
July 15 Sterling	U.2. Canadia Dollar Dollar	Dutch Gulldor	Swiss Frans	D-mark	Franch Franc	Italian Lira	Belglan Dony.	Franc Flit.	Yen	Danish Krone
Short term	13%-13% 13-14 16%-137, 15%-161	85g-87g 95g-85g	lg-1	849.934	141-147	171:19	141g-151g	1434-1514	7.7 ia	1414-1412

SDR linked deposits: one month 12½-12½ per cent; three months 12½-12½ per cent; six months 12½-13½ per cent; one year 12½-13½ per cent.

ECU linked deposits: one month 12½-12½ per cent, three months 12½-12½ per cent; six months 12½-13½ per cent; one year 13½-13½ per cent.

Acian S. (closing rates in Sindapora): one month 14½-14½ per cent; three months 14½-15½ per cent; six months 15½-15½ per cent; one year 15½-15½ per cent.

Long-torm fution and call linr U.S. dollars. Canadian dollars and Japanese yen; others two days' notice.

The following rates were quoted for London dollar certificates of deposit; one month 13,95-14.05 per cent; three months 14,55-14.65 per cent; gix months 14,76-14.65 per cent; one year 14 05-14.75 per cent.

### **MONEY MARKETS**

3 months U.S. dollars

offer 15

# **UK** rates show little change

UK clearing bank hase lending rate 12 per cent (since July (4) Interest rates slinwed little chaoge in the London money market yesterday in generally featureless trading. There was little influence from U.S. interest rates which were virtually unchanged ahead of inday's U.S. money supply figures. In the interbank market overnight money opened at 121-121 per cent and rose to 121-123 per cent before coming back to 10-11 per cent in the afternoon. Closing balances were taken at 12-12-1 per cent however. The Bank of England forecast

a shortage of around £550m with facines affecting the market including hills maturing in official hands and a net take up of Treasury hills —£11Sm.

Exchequer transactions —£360m and a rise in the note circulation of £30m. The bank gave assisjance in the morning of £456m. comprising nurchases of £2Sin of eligible bank bills in band I (up to 14 days) at 12; per cent and

# London 3-month Interbank

in hand 2 (15-33 days). £10m of Treasury bilts, £5m of tocal authority bills and £74m nf eligible bank hills, all at 12 per cent. In band 3 (34-63 days) it bought £145m of eligible bank hills at 11; per cent and in bend 4 (64-84 days) £194m of eligible bank bills at 112 per cent. is expected
The bank gave further help in of F1 15bn.

the afternoon of £82m, making a grand total of £538m. The after-noon help comprised purchases of £10m of eligible bank bills in hand 3 at 12 per cent, £5m in hand 3 at 11% per cent and £67m in hand 4 at 112 per cent and form in hand 4 at 112 per cent.

In Paris the Bank of France left its money market intervention rate unchanged yesterday at 142 per cent when it bought about FF 20bn of first category

paper from the market Maturity dates are between July 21 and July 31 and August 1 to August 10. In the money market call money remained al 15 per cent. In Amsterdam figures released yesterday showed 2 steady increase in domestic fiquidity due in part to an inflow of funds from abroad. The relatively high level of funds was a reflection of Dutch balance of payments ourplus in part as well as operations by banks and the Treasury to raise funds. The Dutch curreol account surplus for 1982 is expected to be in the region

### **EUROCURRENCIES Eurodollars** steady

Euro-dollar rates were mostly unchanged yesterday. Some periods did show yery modest increased but the mood of the market still reflected uncertainty as to how interest rates were likely to move in the immediate future. Money supply figures due for release today will reflect the expected "July hulge" with estimates ranging from a \$4bn to \$10bn increase. Much of this will already have been discounted but there was little activity yesterday as the market awaited today'o figures. There may also be some besitancy ahead of next Tuesday's speech by Mr Paul Volcker. U.S. Treasury secretary, which should provide some shlighten-Treasury secretary, which should provide some balightenmeni on U.S. medium term nolicy. Elsewhere European policy. Elsewhere European interest rates showed little change in featureless trading and quotations in the forward market barely moved.

### LONDON MONEY RATES MONEY RATES

NEW YORK	
Prime rate  Fed funds (lanch-hma)  Treasury bills (13-week)  Treasury bills (26-weak)	
GERMANY	
Lombard  Qveminh rate Ono month Three months	9.00 8.95 8.40 9.50 9.65
FRANCE	
intervention tale	14.75
Overnight rafe	15.00
One month	14.5625
Three months	14.625
Six months	14.5625
JAPAN	
Discount rate	5.5
Call (unconditional)	7.40625
	7 55165

Sterling Certificats : of deposit Local Authority deposits Local Auth-; Finance y negotiable House s | bonds | Deposits Overnight..... 2 days notice... 12 12 11 4-12 124-12% 124-12% 12tg 1234 1234 1234 1254-1212 1254-1212 1214-1178 1256-1214 1956-1214 18ts 12 15 12 15 12 15 12 15 19 16 1212 110-115 = 12 kg 13

Local authorities and finence bouses oeven days notice, others asven days fixed. Long-term local authority mortgago retos, nominally three years 13% per cent; four years 13% ger cent; five years 13% per cent. \$\Phi\$ bank bill rates in table are buying retos for grime paper. Suying rates for four-month bank bills 112% ger cent; four months trade bills 124% per Approximate salling rate for one month Treasury billo 11%-12 per cent; two months 11%-11% per cent; three months 11%-11% per cent; three months 11%-11% per cent; three months 11% per cent; three months 12% per cent; three months 12% per cent; finence Houses Base Rates (gublished by the Finance Houses Association) 13% per cent; from July 1 1982. London and Spottish Glearing Sank Rates for landing 12 per cent. London Clearing Sank Deposit, Rates for sums at seven days notice 9 nor cent. Treasury Sills: Average tender rates of discount 11 7482 per cent. Cartificetes of Deposit (Series 5) 12% nor cent from July 13. Opposite withdrawn for cash 10% per cent.

# ET TIMET TOTICE INTERDMATION SERV

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# British Shipbuilders plans job cuts

BY HAZEL DUFFY AND JOHN LLOYD

announced plans yesterday to cut its sbiprepair workforce by yard meetings in the next few 1.500 in an attempt to stem days. They fear that the cuts losses, which have been running cannot be achieved by voluntary

Tyneside will be most severely affected—up to 1,400 jobs will go at Tyne Shiprepair. Other facilities involved are Grangemouth Dockyard, where the labour force will be reduced by between 40 and 95, and Smith'a Dock in Middlesbrough, where BS wants to stop repair work, putting 100 jobs at risk.

BS was consulting officials of the Confederation of Shipboilding and Engineering Unions (CSEU) yesterday. Union officials were informed of the cuts on Wednesday. The unions

military deal

with Spain

Egypt in

(£581m).

to compulsory redundancies at just under 4,000 to about 2,500.

The priociple of achieving job cuts by voluntary redundancy has beld generally since the 1979 Blackpool agreement 1979 Blackpool agreement between BS and the CSEU. Any breach of the pact oo Tyneside would aour the stability of industrial relations in the industry. BS said yesterday it would, as far as possible, offer transfer or voluotary redundancy.

BS says that it "firmly intends to remain in the shiprepair business," following implementation of the plan, which would reduce the total

The corporation attributea lts losses in shiprepairing to the

severe recession in shipping, and to the fact that some repair facilities are in rivers and estuaries where the traditional shipping trade has been reduced. BS will next week announce

its figures for 1981-82. It is expected to show a loss within the limit of £25m set by the Government. The loss limit has been reduced to £10m for the current year, and the corpora-tion says it would have difficulty in meeting the target if it did not take action on shiprepairing. CSEU'a shipbuilding negotiating committee

SHIPBUILDERS plan to stress their resistance workforce in shiprepairing from called a meeting of delegates from the sbiprepair section in Newcastle on August 23 to discuss a response

However, the unions are inhibited from taking industrial action at Tync Shiprepair be-cause a no-strike agreement has been made a condition if the yard is to win a shiprepair order from Delta Shipping, a subsidiary of Holiday Inns of the

The contract with Delta was to have been concluded in March, hut is still pending. Officials fear any disruption on the Tyne might lead to the loss of the order and a further loss of jobs, or even the closure of

Wiggins Teape redundancies, Page 6

# Nott may face fresh battle with

By Robert Graham in Madrid EGYPT HAS agreed to huy naval vessels, military trucks, and armoured personnel car-riers from Spain worth \$1bn The deal is Spain's biggest military export order. There are prospects of Egypt's taking

further options, increasing its value, with spares, to around The order comes with Spain itself about to announce its own higgest foreign military

purchase — 85 F-18a multi-purpose comhat aircraft from McDonnell-Douglas of the U.S., costing over \$2bn. The Egyptian deal is expected

to be finalised by the end of the month. The principal details outstanding are reported to be

Egypt will spend \$600m on two corvettes and six patrol hoats from Spain's state-controlled naval shipyard, Bazan. The remaining \$400m will go on 3,000 military trucks and 600 four-wheel drive amphibious armoured personnel carriers, all to be supplied by the state-run commercial vehicle producer,

The Egyptian Covernment is also understood to be anxious to take out options on two more corvettes and up to 300 personnel carriers. The order will provide an

important cash injection into tbese two companies, which have been experiencing financial losses and also operating under capacity.

This is Bazan's first breakthrough into the Egyptian mar-

The size of the deal means special Cabinet approval will be necessary. This is because Spain has low limits on the level of export guarantees available for any one country. These would not cover the sums at risk. AP adds: Spain's final decision to order the F-18A aircraft could come at a cahinet meeting oext week.

### Continued from Page 1

### Sizewell B

issoes as more design and safety information became available from the CEGB. Sir Walter Marshall, chair-man of the CEGB, sald he did not believe that the Issues identified by the nuclear inspectors would raise the cost of Sizewell B, currently estimaled at £1.15bn.

He believed the Issue Do which the CEGB's case was most at risk was the fear first voiced by the UK Atomic Energy Authority that the fuel might "hallooo" noder certain accident cooditloos.

Af worst, it could mean a lowering of Sizewell B's 1.150 Mw rating, "But I'm hetling on reputation that we wou't have to do that," said

Sir Walter.

He added that the "task force" which had salvaged the Sizewell B design—the project was almost ahandoned las) summer — would coo-tinue under his chairmanship until the public inquiry.

Special B. A review by III Nuclear Installations Inspectorate of the pre-construction safety report. SO:

# Treasury over Falklands costs

io the current financial year may come partly from within the existing £14.1bn defence budget and not in addition to it. as argued hy Mr John Nott, the Defence Secretary.

These signs of renewed con-flict hetween Mr Nott and Treasury ministers appeared when the Cahinet yesterday had its usual July preliminary dis-cussion about public spending

The discussioo was intended to set the framework for the bilateral discussions during the summer between the Treasury and other departents about individual programmes, leading to final decisions in the late

All the indications last night were that the existing broad atrategy of trying to contain the size of the public sector was confirmed. Treasury ministers will now attempt to elimi-nate the £5bn additional expenditure being sought by spending ministers and try to figure of £121bn for 1983-84 proposed in last March's white Defence are argued that any

Several ministers are helieved any commitment of the con-to have been expressing concern tingency reserves.

about the weak atate of the economy and the absence of the recovery promised by the Treasury. Mr Patrick Jenkin, the Iodustry Secretary, backed by the Scottish and Welsh Secretaries, is believed to bave urged government action in the autumn to help reduce industry'a costs as a priority, ahead of any cut in income tax.

On the defence hudget, it has hecome increasingly clear that the concordat reached between Mr Nott and the Treasury is open to several interpretations. Mr Nott bas claimed that the estimate of £500m this year and of £250m for replacement of lost equipment in each of the following two years is on top of the existing budget and should be financed out of the contingency

ministers have argued that the cost of the operations will comeout of the contingency reserve, only "if necessary." The Treasury has get as close as possible to the pointed to substantial underspending by the Ministry of

THE COST of the Falklands paper. However, no revised margin below the £141bn ceil-operation of more than £500m total bas yet been agreed. ing should he used up before

A further hattle is developing between the Treasury and Mr Michael Heseltine, the Environment Secretary, over local authority spending. The authority the signs of very large over-spending by councils, both in the current year and in their plans for next year. It is even raising the possibility of further central controls to eliminate

Mr Heseltine bas argued that it would be very difficult to reduce spending by the local authorities themselves and that the hest solution may be to reduce the grant which councils receive from Whiteball. This would switch the burden of financing on to the councils themselves, while reducing Central Government's commitment.

There is also concern about the potential financial course of nationallsed industries, notably British Rail and British Steel. Restoring grip on spending,

Page 8; defence package for Falklands, Page 6

Continued from Page 1

# BR plans workforce ballot

seems to be too low to avert a over the strike at a private the Government and speeding closure. the Government and speeding meeting earlier this week. up the saleof property and other

today at a specially-convened Aslef might be ready to relax meeting of the TUC's inner cabi-oet, the finance and general flexible rostering. purposes committee.

This is rarely called to consider individual disputes. The last recorded instance was during the lorry drivers' strike in the 1978-79 "winter of discontent.

The committee, which includes Mr Ray Buckton, Aslef general secretary, seems likely to issue a statement giving only qualified support to Aslef. Many senior TUC figures are known to disapprove of the

union's rigid stance.
Mr Len Murray, TUC general secretary, completed his round of talks with the unions yesterday, seeing Mr Tom Jenkins, general secretary of the whitecollar Transport Salaried Staffs'

Both Mr Bucktoo and Mr Sid Weigbell. NUR general secre-tary, yesterday also met Mr Michael Foot, the Labour Party leader. Mr Weighell denied in a letter to Mr David Hewell.

will Improve sufficiently on proposals it agreed to in talks this week with the Advisory, Conciliation and Arhitration Service and enable Asler's policy-making national conference to be recalled.

Aslef leaders are believed to be ready to recall the conference if they receive an offer which they feel stands a chaoce to continue norrowing, which it is doing mainly from the banks and local authorities. The temporary borrowing limit is which they feel stands a chaoce thought to be flexible, so that if of heing accepted. However, BR seems unlikely to deviate far more weeks. BR will be able from the proposals it was prepared to accept at Acas, which

Aslef did oot accept.

Hazel Doffy, Transport
Correspondent writes: British
Rall is expected to have to continue paying substantial sums to salaried staff and possibly also to members of the National Union of Ralwaymen if the rail shuldown threat**ene**d

BR will have to meet the salaries and wages bill by borrowing against its £150m temthe Transport Secretary, that rewing against its £150m tem- of the union, the had clashed with Mr Foot porary borrowing limit set by have to he paid.

However, further efforts to There were indications in assets. To date it has decreased avert the closure will be made Labour circles yesterday that between £75m and £80m against this limit.

Money is still coming in to BR in payment for freight car-The Labour bope is that BR ried in the past month, but as ill Improve sufficiently on this sourceof finance dries up BR will have recourse only to borrowing.

The Government has made it clear to BR that it will act as the final guarantor to enable BR to continue horrowing, which it thought to be flexible, so that if the strike continues for several

Employees who have coo-tracts with BR, including many of the salaried staff, would have the right to sue BR it it decided to cease paying them. BR could also find Itself having to pay NUR members if the unioo decided to take out ao injunction against BR following the suspension of ts guaranteed working week.

If the courts found in favour of the union, the wages would

### Battle for Basra Continued from Page 1

from Kuwait to Baghdad, which run close to Basra. One report yesterday said the Iranians had already blocked the main road south of Basra, presumably by air attacks. Severance of the road from Kuwait would leave Iraq totally dependent for sup-plies from abroad on its other two overland routes, from Jordan and Turkey.

assault was led by waves of infantry at night. Iran seemed willing to take "massive casualties," according to the

Iranian iovasioo of Iraq. That proved to be only an appreheo-

movements were not large Loading in Iran was reported to

U.S. assessmeot. Arabiao Light was up by 55 Richard Johns urites: Following U.S. cents \$31.50 (£18.29) per a month of siagnation and de-citoe, oil spot market prices rose official selling price of \$34, yesterday in reaction to the Iranian Light, which should command a slight premium, rose only by 25 cents and was U.S. officials said the Iranian sive twioge, however, and price quoted at an average of \$30,75.

# Bunzl abandons £16m bid for Bemrose

BY CHARLES BATCHELOR

BUNZL. the London-based to show a profit of £202,000 oo of the ordinary equity.

namer and packaging group, the transaction.

Bunzl held no shares prior to paper and packaging group, vesterday ahandoned its £16.1m hid for Bemrose, the Derby security printer. Within hours of the bid lapsing, Mr Robert Maxwell's British Printing and buying from BPCC. N. M. Rotbs-Communication Corporation (BPCC) said it had placed its entire Bemrose holding-2.24am shares or 19.97 per cent of the equity-with institutions.

The Bunzl bid began with an unsuccessful "dawn raid" nearly two months ago. It child, advising Bunzl, believed the company's bid would have been successful hut for we actions of BPCC.

The Bunzl offer was incerased respond from £13.8m. or 120p a share. emerges. Mr Maxwell said be had to £16.1m, or 155p a share decided not to make a "bostile nominal, in the course of the for Bemrose. BPCC bld hattle. It received acceptplaced the shares at 142p each. ances from helders of only for Mr Maxwell's shares as soon after paying an average 133p, 68,942 shares, or 0.6 per cent as the Bunzi offer lapsed and

in its early morning raid on nice profit."
May 18. It did pick up 1.59m Kleinwort shares. 13.8 per cent of the Bemrose equity, bowever, last Fri- interested in placing its holding. Under the City Take-over and Merger Code Bunzl may not now

make another bid for Bemrose for one year, though it may another bidder Kleinwort Benson, advisers to

Bemrose, said they made a bid

arranged for their placement Bunzl held no shares prior to with institutions. Reinwort its offer and failed to gain any said: "Mr Maxwell bas made a

Kleinwort also plans approach Bunzl to see if it is Bemrose said the lapsing of Bemrose said the lapsing or Bunzi's bid was "a great success for the company and demonstrated the tremendons loyalty of the sharebolders."

Bemrose's shares traded at 86p before the bid. They fell 4p to 140p vesterday after the lapse

to 140p yesterday after the lapse of the Bunzl offer but before news of the BPCC placement. Bunzl's shares rose 2p yester day to 16ap,

### plea to **Arabs for** PLO refuge By Anatole Kaletsky in

Reagan in

HOPES that a hloody Israeli attack on West Beirut can be avolded seemed last night to depend mainly on Arab leaders' response to personal letters from President Ronald Reagan, uring them to accept the 6,000 Palestine Liberation Organisation guerillas trapped in the city. U.S. administration officials

described Syria's refusal

earlier this week to provide a refuge for the PLO fighters as "the major stumbling block" to a peace agreement. All other aspects of a disen-gagement hetween the PLO and Israeli forces would be easy to resolve if there was a clear promise from an Arab nation to accept the guerillas. But the negotiations in Beirut by Mr Philip Habib, the U.S. special envoy in the Middle East, have come to a standstill for the moment because no country accus willing of receive the PLO, acording to officials. If Mr Habib gives up his attempt to negotiate a PLO evacuatioo, the Israeli army is almost certain to attack West Beirut.

One official said yesterday: "The PLO has received a death sentence from the death' whole Arab world. The only obstacle to a peaceful settle-ment is that nobody will take

officials however, that Syria is likely to announce its willingness to accept the PLO when Mr Syrian foreign minister, visits Washington early next week or even this weekend. The fact that the PLO sent the Syrian Government a formal request for refuge on Wednesday may indicate that an understanding has been reached between Syria and the PLO.

President Reagan's willingmess to take part personally in the talks hetween Mr Khaddam and Mr George Shultz, the new U.S. Secre-tary of State, is also regarded as a hopeful sign. However, there are still fears in Washington that the PLO may seek a last-minute concession from the U.S. before agreeing to evacuation. Some officials say Mr Habib

may even be willing to meet PLO leaders, if this could be arranged. However, another Administration official warned that any PLO hopes of obtaining some form of recognition exchange for leaving Belrui were founded on "complete confusion" about U.S. policy.

"There is not a chance on earth that the U.S. will recognise the PLO as a condition for withdrawal from Belrut," he said. "The PLO has no cards to play." Its only alter-native was to remain in West Beirut and fight.

Yesterday, a senior PLO leader was quoted in Beirut as saying that a hattle in the city with the Israelis was a "foremost probability."

### Weather:

BRIGHT INTERVALS with showers. S.W. and E. Scotland, N.W. and

E. England E. England
Cloudy, outbreaks of rain,
with bright intervals. Max 17C (63F), but cooler in north.
S. England, Midlands, Wales, N.
Ireland and N.W. Scotland
Suppressionary Secretaries

Sunny iotervals, scattered showers, Max 19C (66F).

Ootlook: drier and hrighter hut raio io north west.

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Card # C 18 64	N Yorkt C 21 70 Nica 5 28 82
Cas'b'ca F 21 70	N York† C 21 70 Nica 5 28 82
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Conhon. S 25 77	
Corfu S 31 88	Perth Pregue S 30 85
Oanvert S 24 75	Pregua 8 30 85
Dublin C 17 53	Rykjvk. S 14 57 Rhodes S 29 84
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	R-o J'ot
Faro F 23 73	Rome S: 32 90
Florenca — —	Selzbrg, S 29 84
Frankft. S 20 86	S'ciscot — —
Funchel R 19 65	S'elscot — — 5. Mntz. — — — — — — — — — — — — — — — — — — —
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	Sydney — — Tangiar S 23 73
H. Kong	
Innstrk. S 28 82	Tel Aviv S 28 82
Invrnes. R 12 54	Tenerite C 25 77
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Istanbul S 26 79	Trincat S 18 64 I
Jersey C 16 St	Tunis S 40 104

THE LEX COLUMN

# Sound of cash at Thorn EMI

EMI must rank as one of the of the decade - at least in retrospect and bardly for the reasons put forward by Thorn at the time. The price was £145m, and subsequently Thorn EMI realised £60m through business disposals; still more dramatically in two years it has squeezed no less than £100m cash out of what was meant to be an ailing music business. Indeed, thanks to the way the music husiness has been turoed round, Thorn EMI has so far heeo able to fund comfortably the accelerating capital investment programme in its rental business. In the current year spending oo this side alone may reach £300m, yet debt may rise hy no more than £70m. So

the rights issue that is regularly forecast is by no meaos inevitable. The music business has been the driving force behind a 12 per ceot increase in overall pre-tax profits for the year to March to £105.4m. Once agaio, the main difficulties have been experienced in the original Thorn divisions, where reorganisation costs taken above the line have been in the region of £20m for the second year running. In particular the engineering and domestic appliances businesses bave found the going tough and if anything the trend appears to have deteriorated in the current year, although lighting should show a pick-up after clear-out of inventory. The pre-tax outcome may be about

£120m. The sbares rose 10p

yesterday to 400p, where the yield is 5.4 per cent.

### Distillers

For the second year running Distillers has done rather better than its own gloomy half-time prognostications. Pre-tax profits of £178.5m, compared with £181.0m in 1980.81, do not amount to much of a decline considering that last - year's figure contained £9m of investment gains. Current cost earnings are marginally up, and DCL is again pouring out nearly all of them, which means a surprise peony on the diviyear despite unsatisfactory left it completely uncleardend—and 13p on the share prices, and the decent perform—whether the paper was on tarprice, up to 187p yesterday, ances of Giltspur and Winget or not.

Working capital reductions and canton. Meat will be dragged One thing is definitely off-tarf31m from the EEC leave DGL, painfully back into profit over get. The Mall on Sunday's cirwith even more cash than usual, the next couple of years, and culation has not yet; exceeded,
and it has no obvious use for although Uniford is not described. with even more cash than usual, the next couple of years, and culation has not yet exceeded and it has no obvious use for although Umgate is not awash 900,000, which is significantly with obvious growth businesses, short of the paper's initial goal.

Distillers has almost as many that is nothing unusual in the of 1.25m. Perhaps FT readers sluggish markets as it has food sector. The 11.4 per cent would care to play our Casino brands of scotch—offtake is low yield on the shares at 86p is game — no prizes — of guessbrands of scotch—offtake is low yield on the shares at 86p is game — no prizes — of guessfrom the U.S. and Venezuela to
Germany. Still, overseas earnings were boosted by between programme, moch of it in milk, yield 8.8 per cent at 175p.

£5m and £10m as a result of the

lower pound, which will continue to be a help in the current year. As DCL waits hopefully for signs that the slide in

volume is over the yield on its shares is a rock-solid 9.4 per cent. But plenty of its share-

bolders are sitting on losses.

The guarded optimism ex-

pressed by Unigate at the

interim stage has not been ful-

filled, and after heing £51m ahead after six months pre-tax

profits closed the year at £38.3m

against £38.0m. The bad weather is said to have cost £2m of profits in milk and trans-

port, but the real problem con-

tinues to be the meat business.

This turned round into £5m of

loss at the tracing level (from £34m of profit) after absorbing

£21m of balance sheet provi-

sions—and that is before £141m

hoth what is happening in the

waste of money. It is un cheapeat corporate acquisitions Index rose 2.6 to 556.4 to Unigate now to prove the

# Dowty

Dowty's share price has turned in one of the more erratic performances on the Stock Exchange over the last couple of years. From a glamour rating in the spring of 1981, when it peaked at 204p, it tumbled to a low of 115p earlier this year. Yesterday, after an B per cent rise in present a profits to 539 km presents. tax profits to £39.km was reported for the year to karch (in spite of an 18 per cent decline at the interim stage) the shares rose 9p to close at

The aerospace division has recouped the arrike-affected decline of the first half, but the underlying picture is fairly flat and there is unlikely to be much of an improvement in the current year. Mining equipment is also back on a platean having completed its redun-dancy programme. Both the electronics and Industrial divisions may push sheed cautiously. With demand stag-nant, the pre-tax outcome may be up 5 per cent or so this year. The yield is 3.7 per cent and p/e about 15, fully taxed, so the rating looks appropriate—at last—for a well managed company with solid, if not dramatic, long term growth prospects.

### Assd. Newspapers:

The revamped Mail on Sunday voucbes for the many editorial skills of the Associated Newspaper Group. Perhaps it is now time that the company applied those skills in its own statement of earnings. One palty sheet informed the

of below-the-line charges which leave the group with no retained earnings. City vesterday that pre-tax profits bad halved to £5.4m for The equity market is so thoroughly disenceanted with Unigate that only bid rumours—improbable, so far—awaken much interest in the shares. the six months to March. Eyebrows quickly began to arch as this reporting period ended before Mail on Sunday arrived. The company had previously But it would be wrong to ignore announced a £12m budget for re-organised milk business, where operational efficiencies are pushing profits ahead this the new paper's atart-up costs and initial Josses, but yester-day's uncommunicative missive

# How many places do you know where local industry leads the World?



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